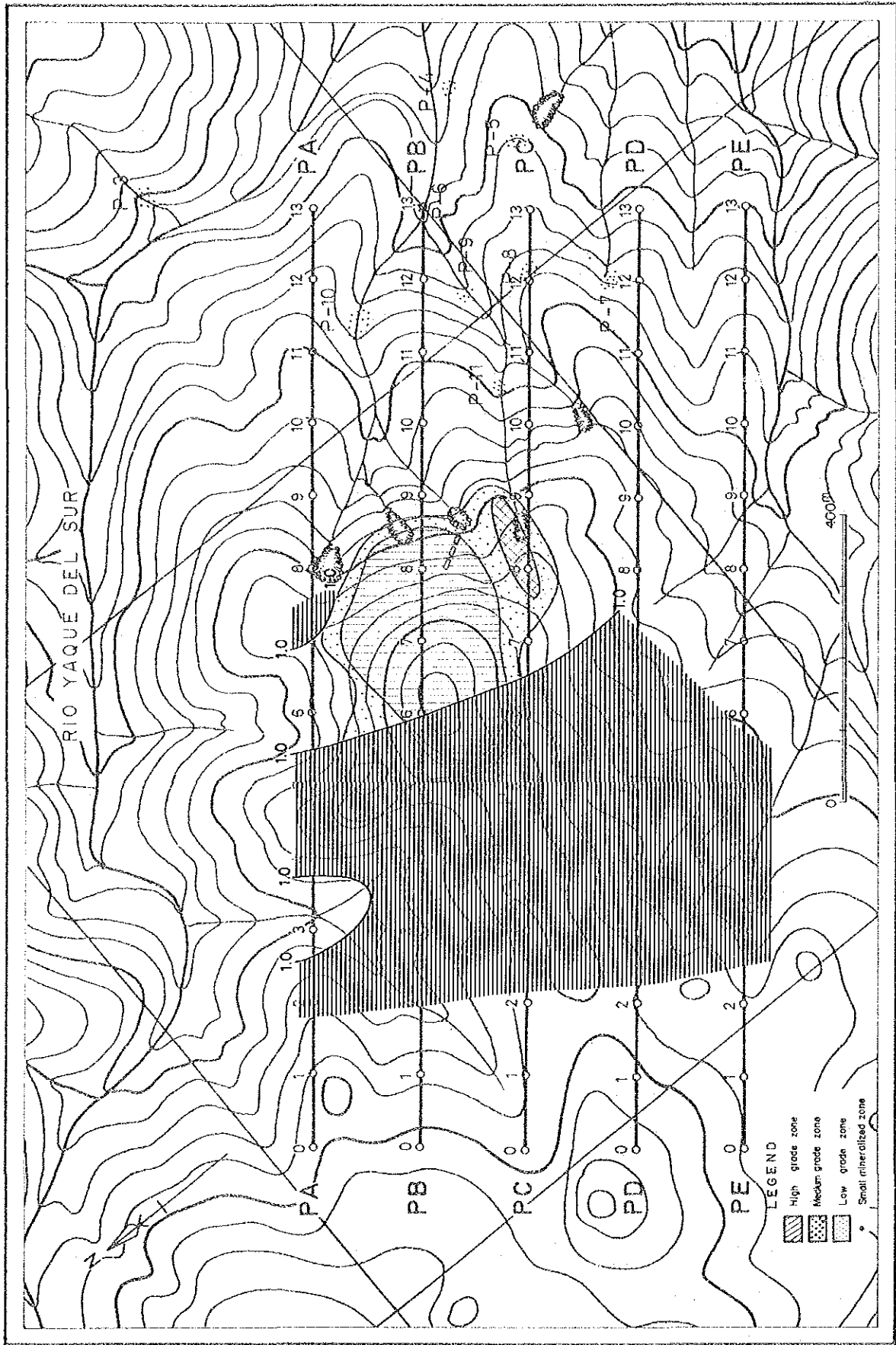
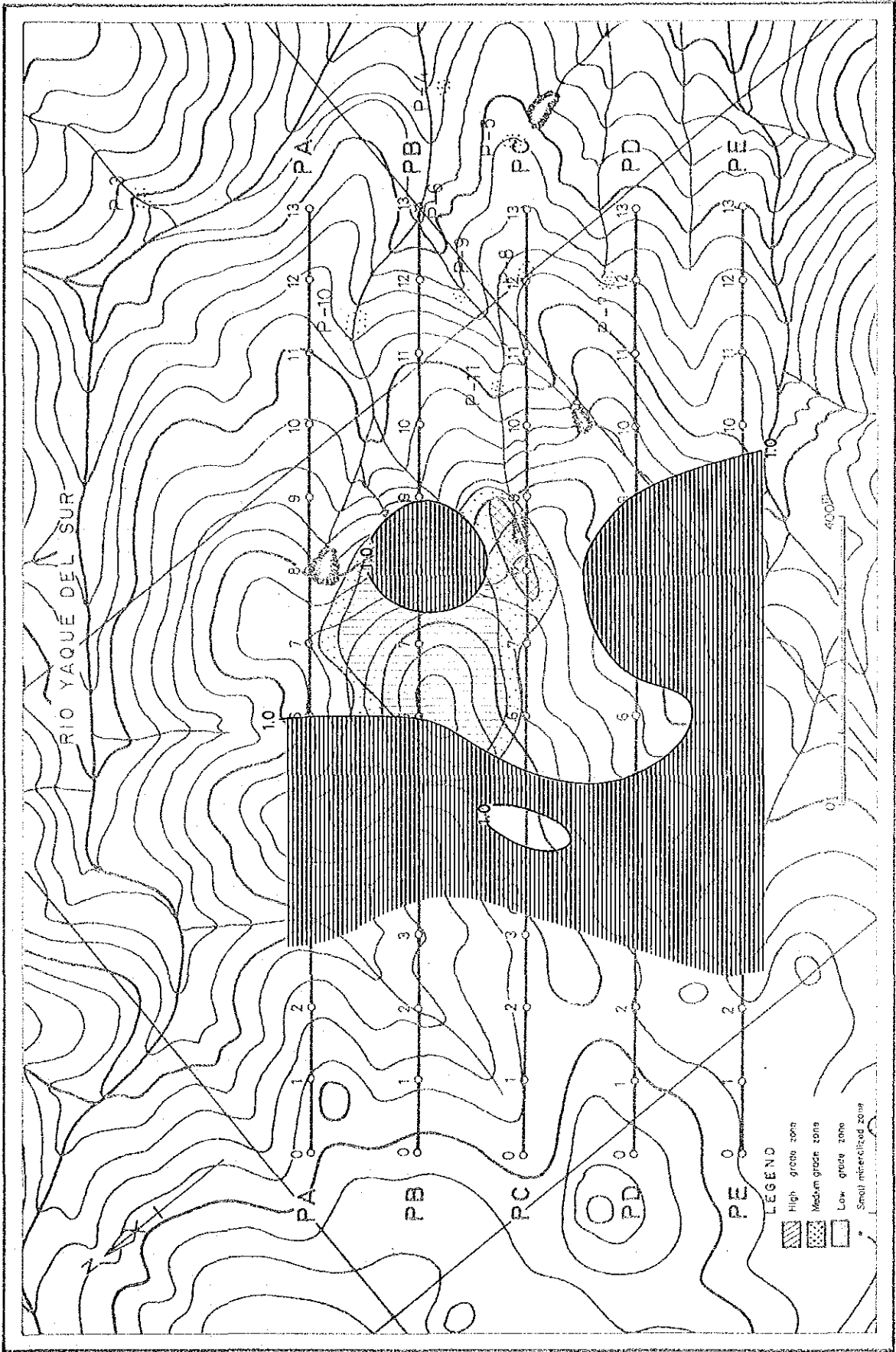


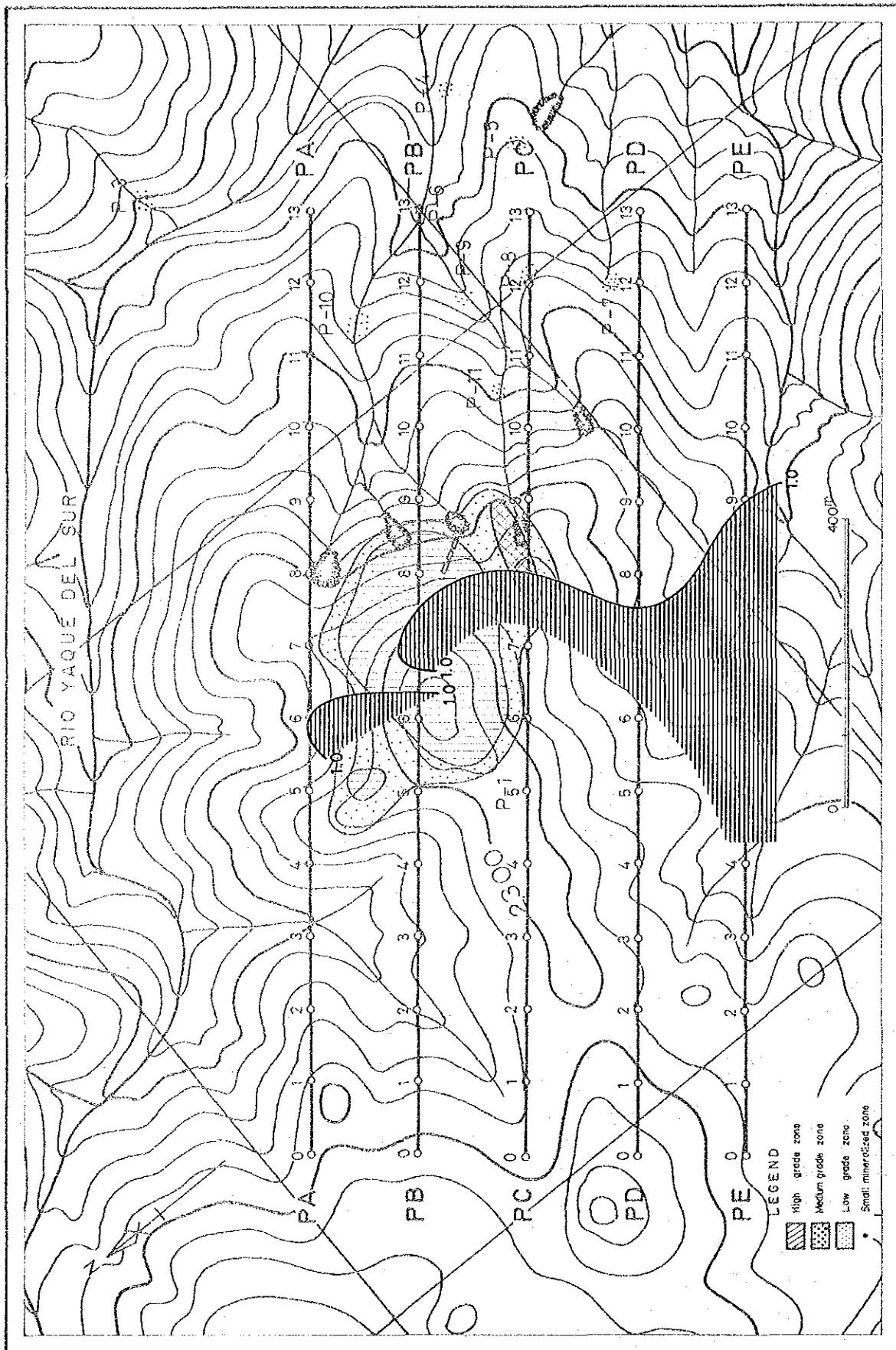
第42-1图 PFE 平面图 (标高2,200m)



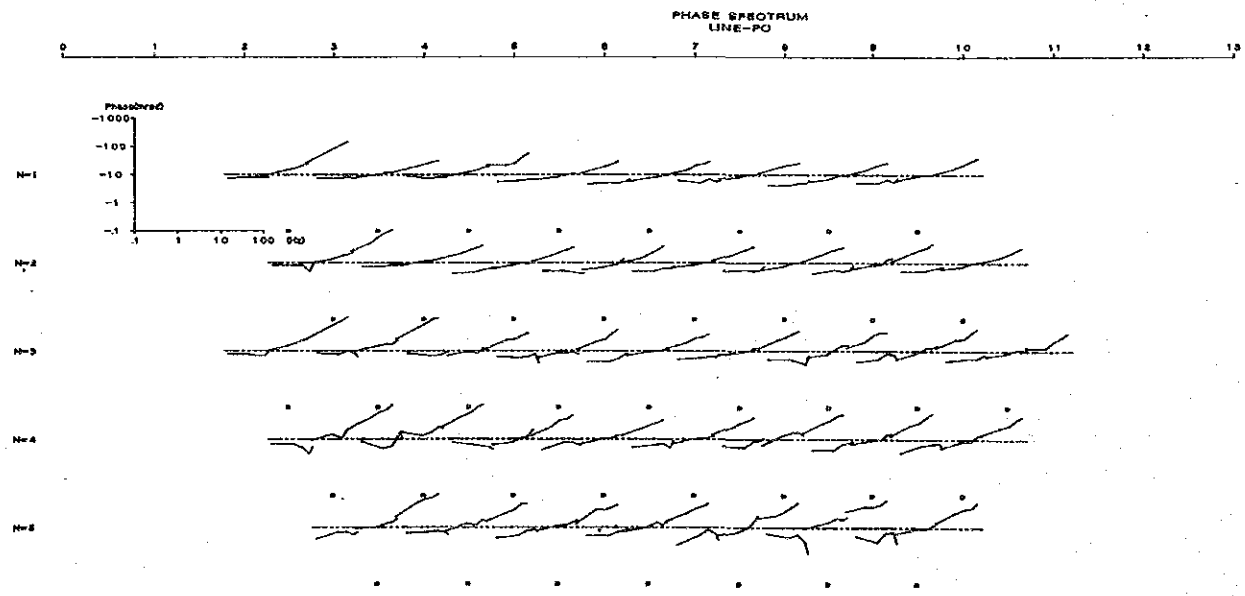
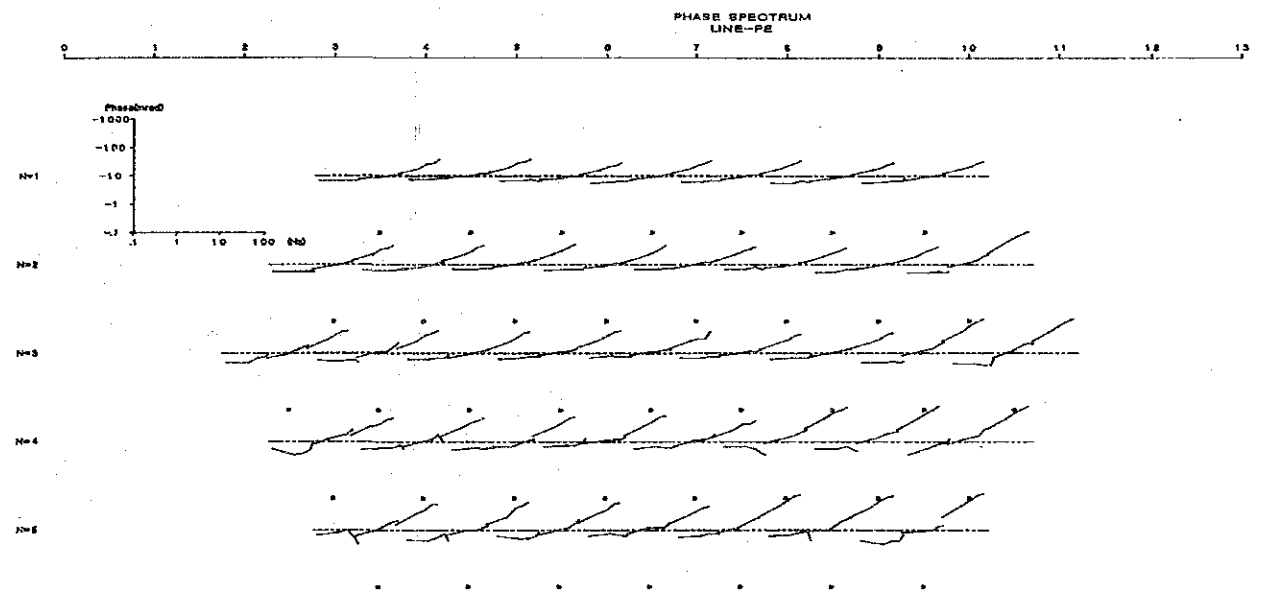
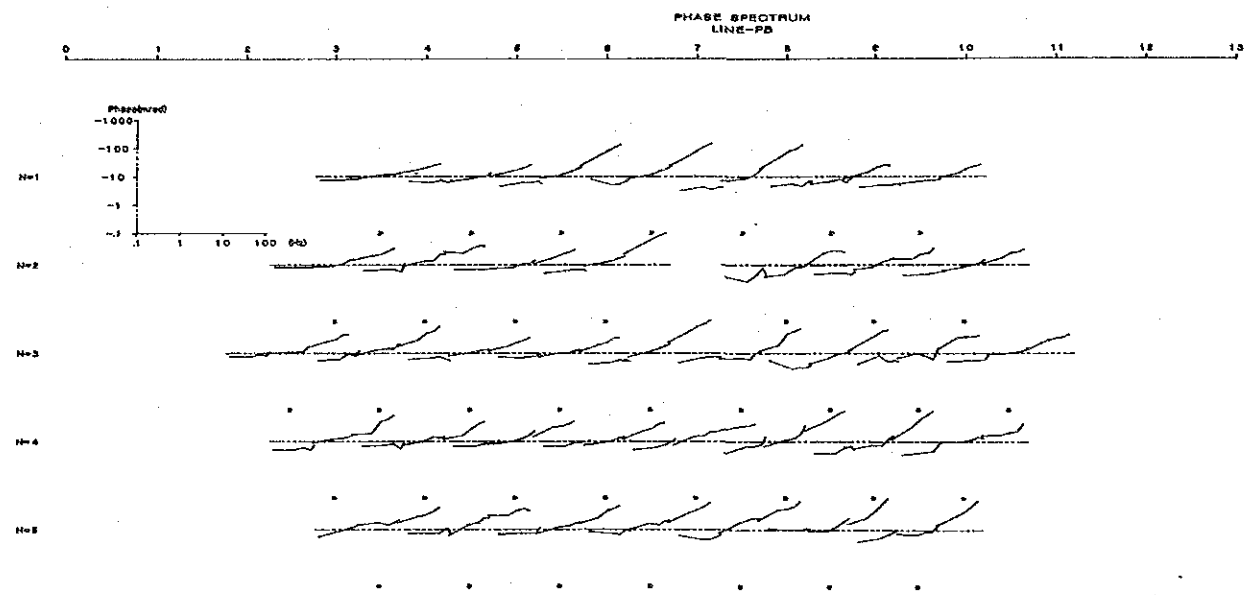
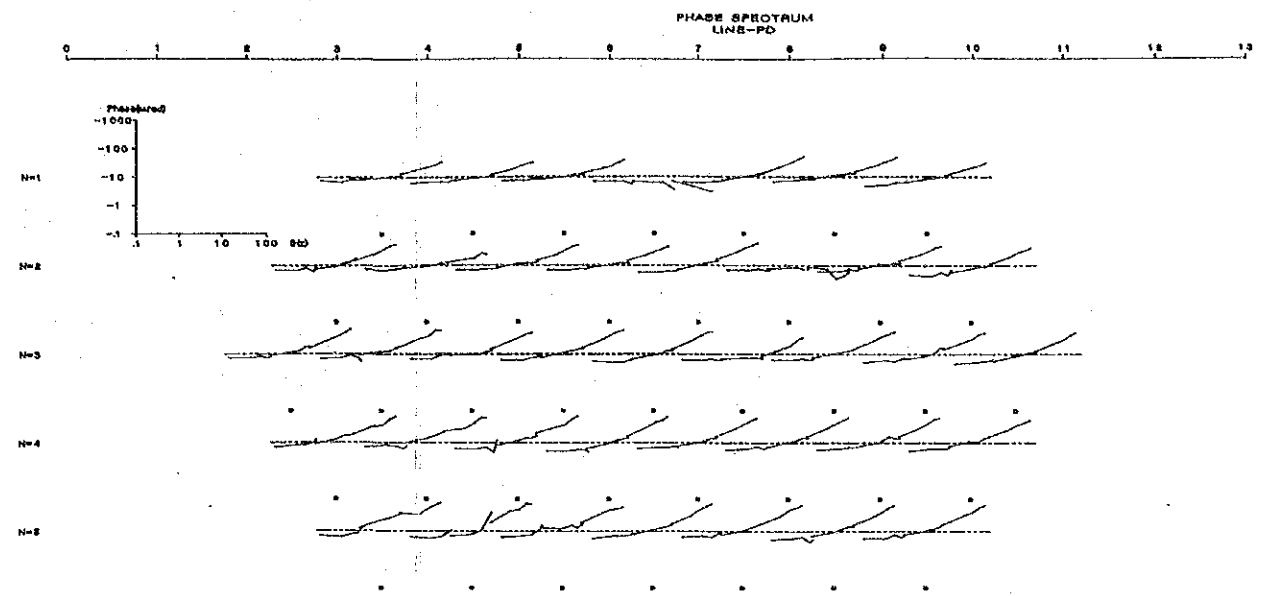
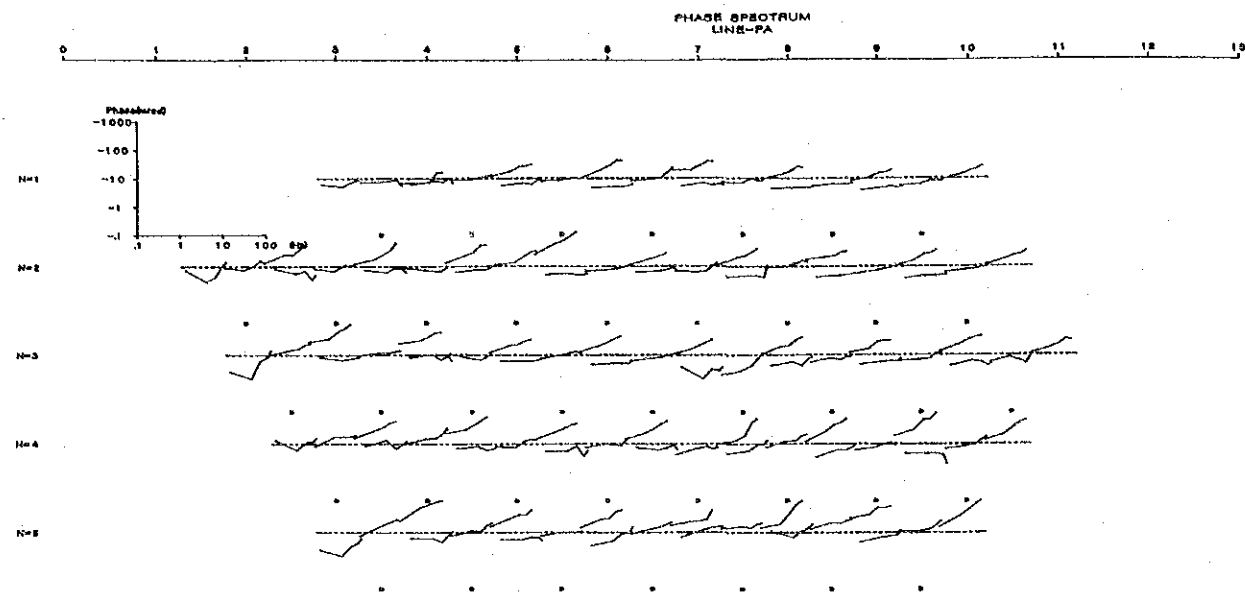
第42—2 図 PFE 平面図 (標高2,100m)



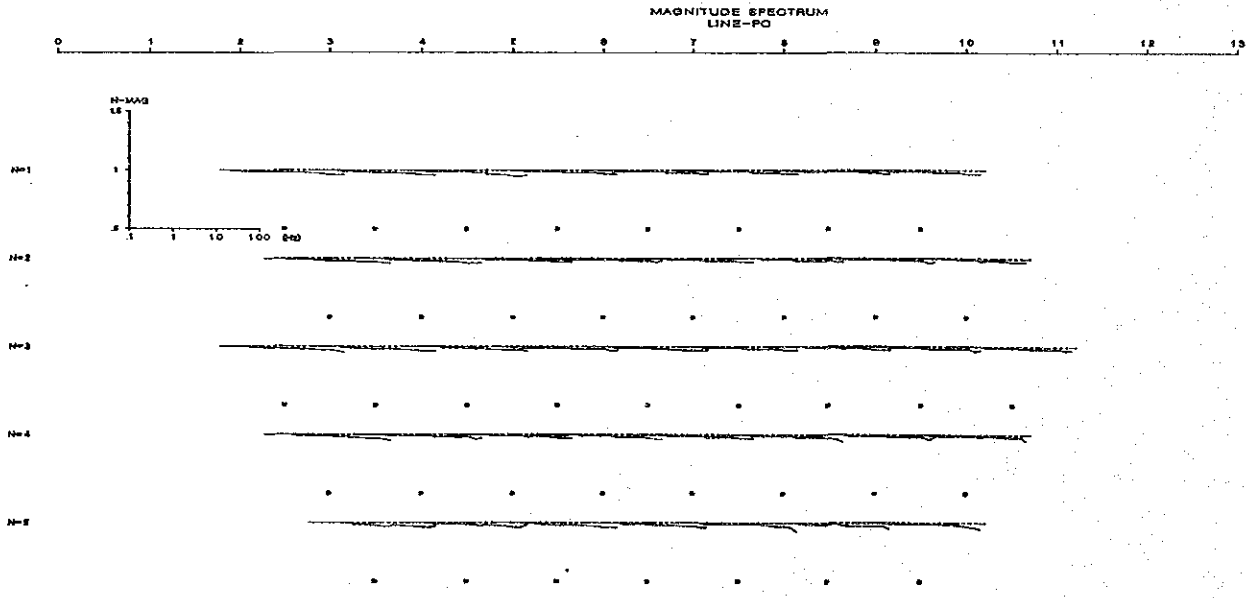
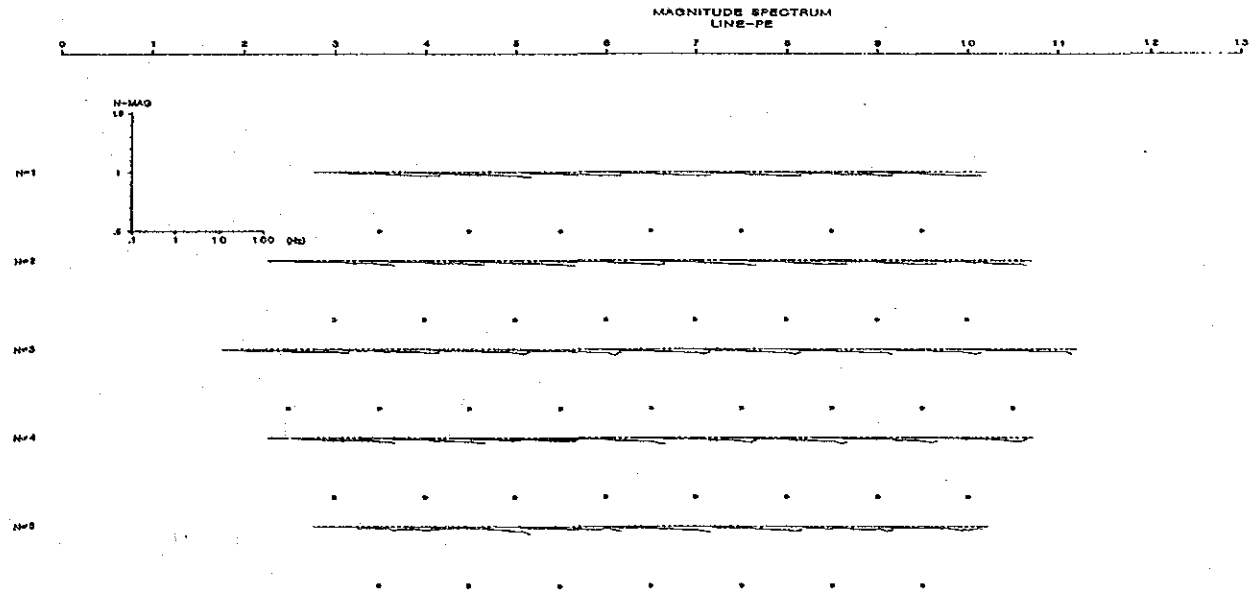
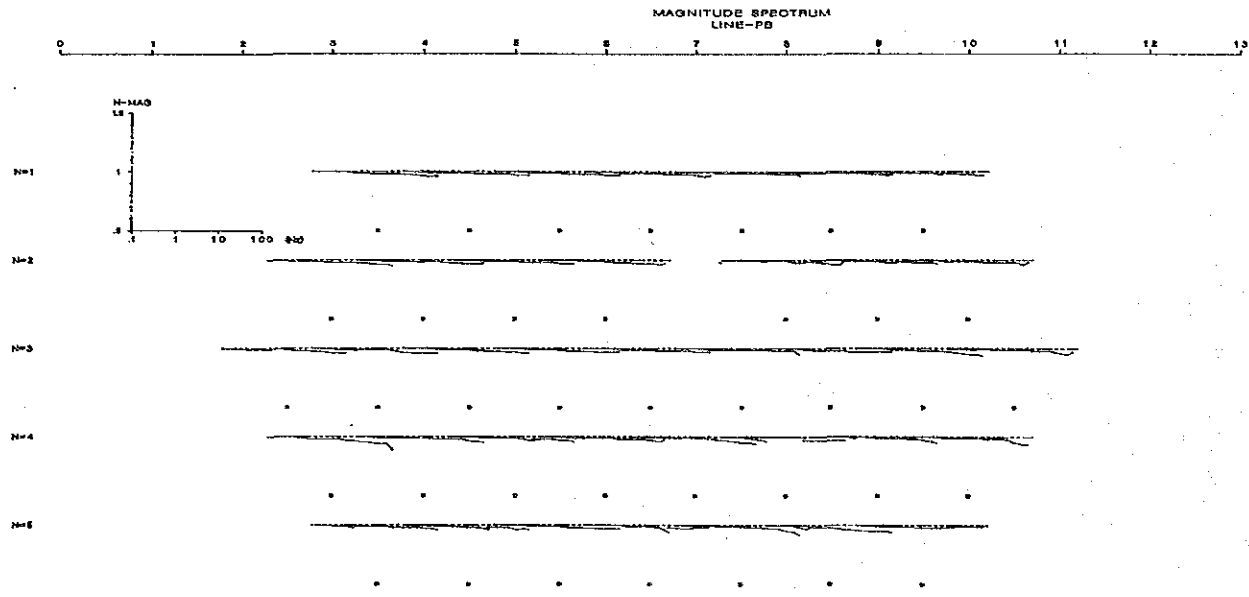
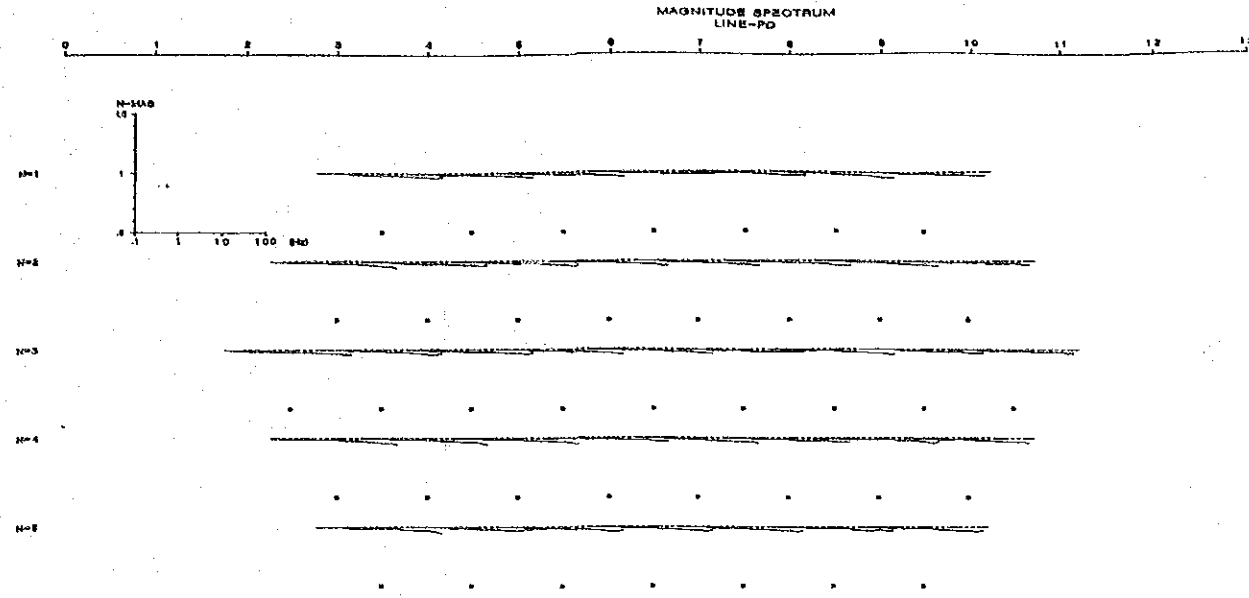
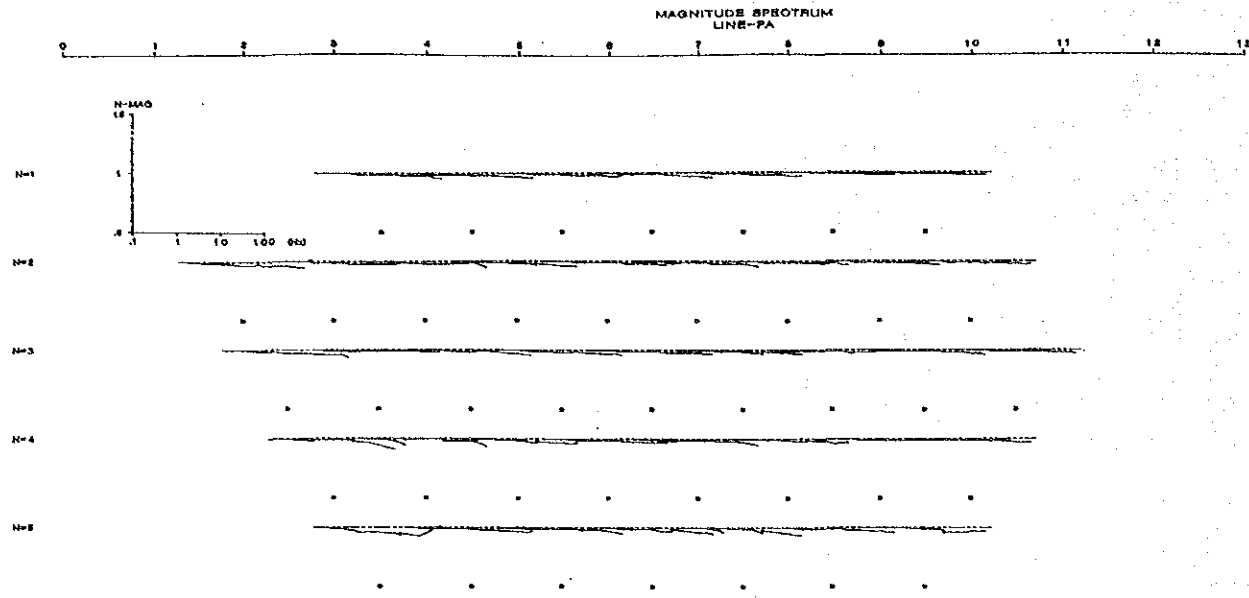
第42—3 图 PFE 平面图 (标高2,000m)



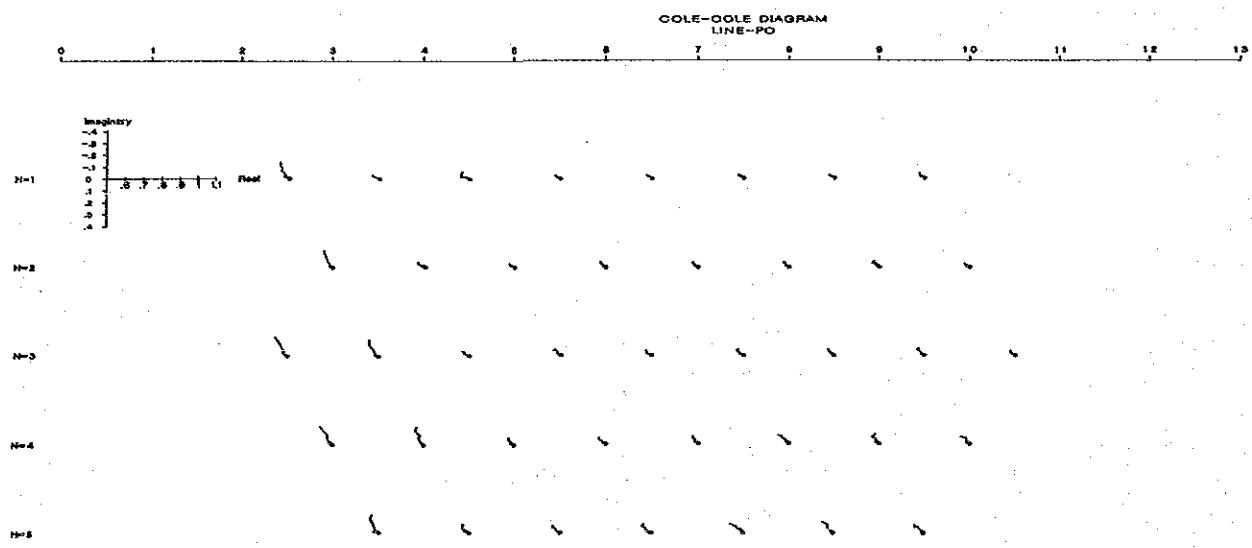
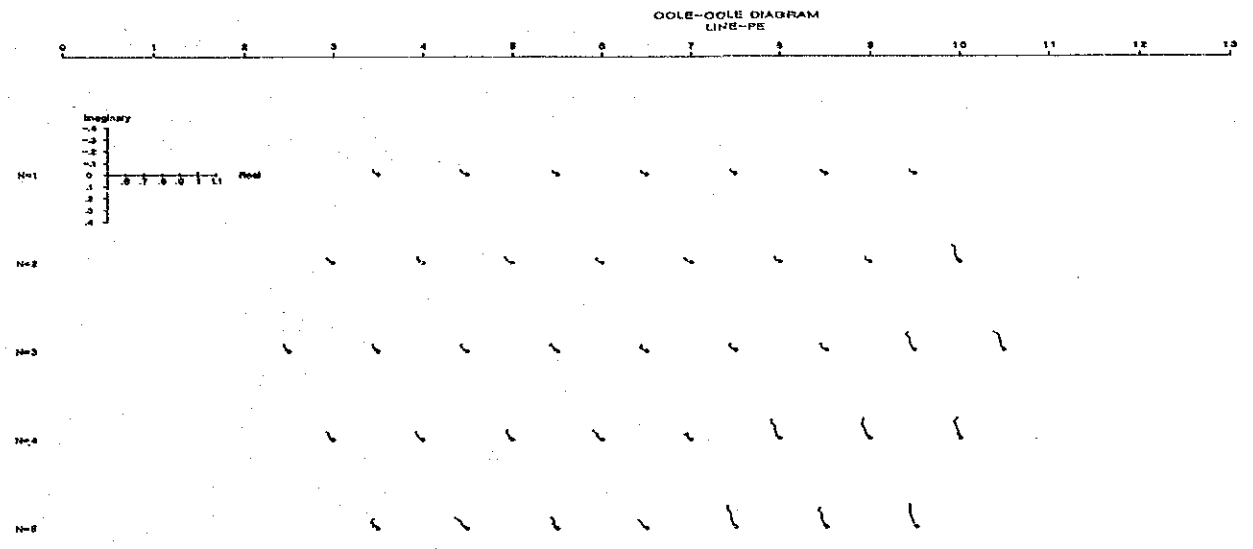
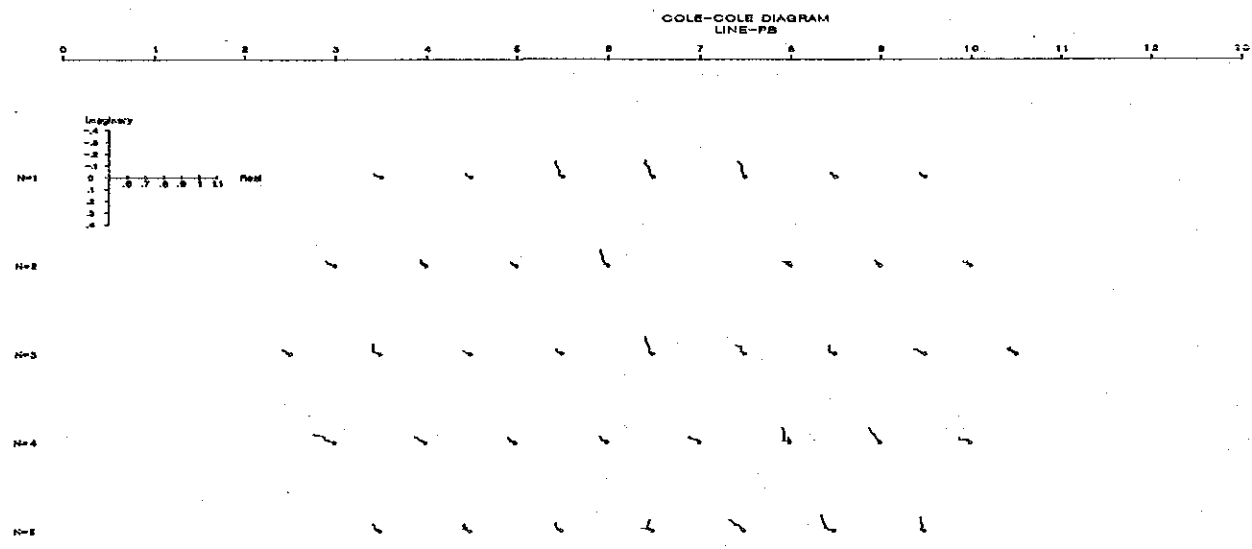
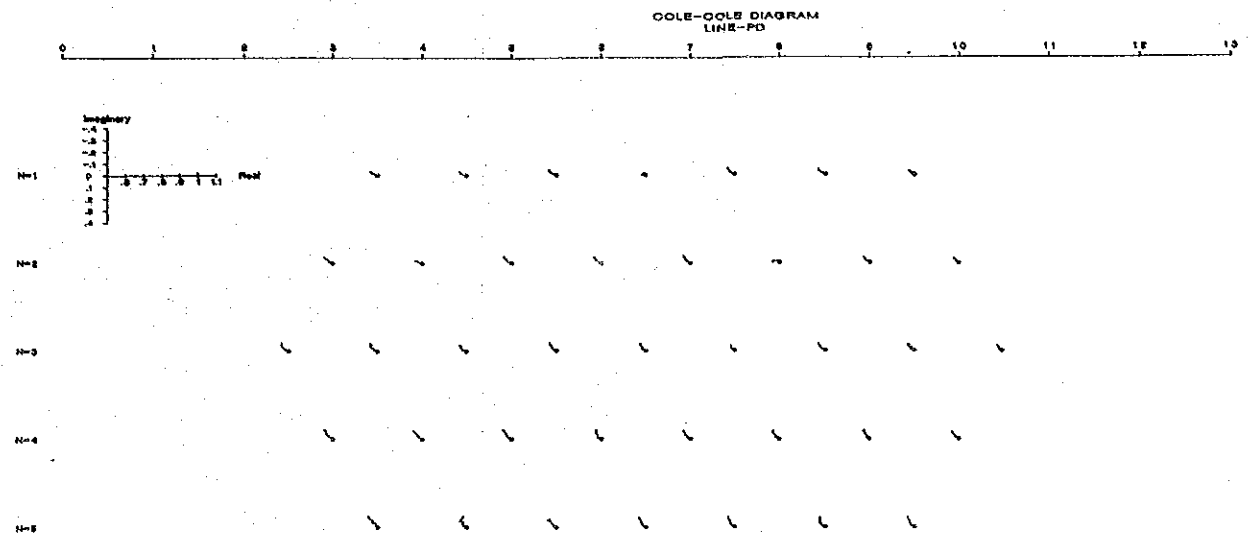
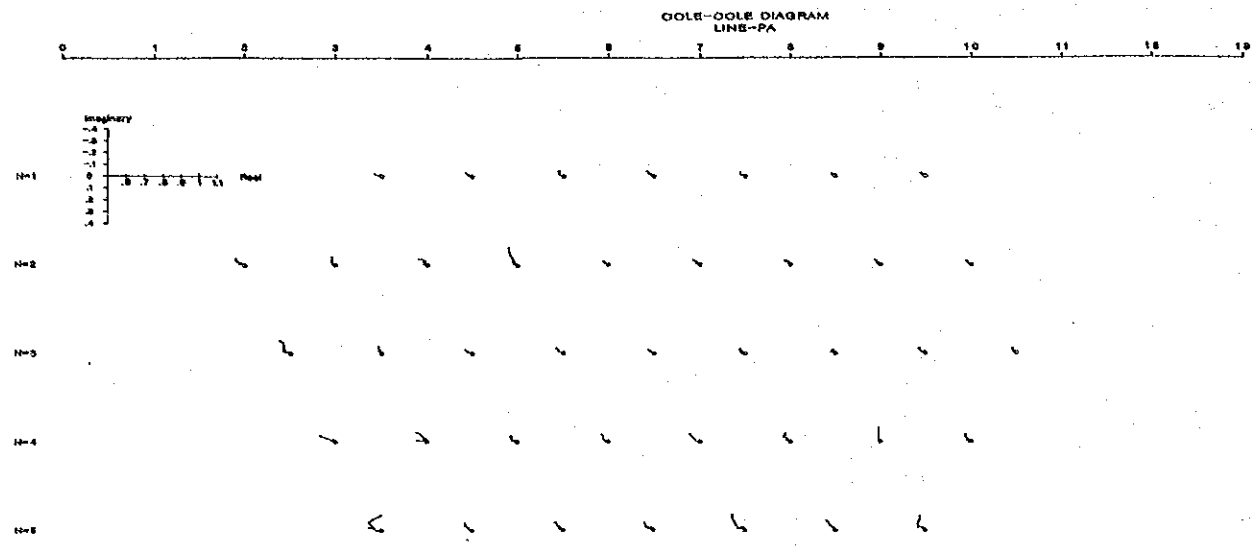
第42—4 図 PFE 平面図 (標高1,900m)



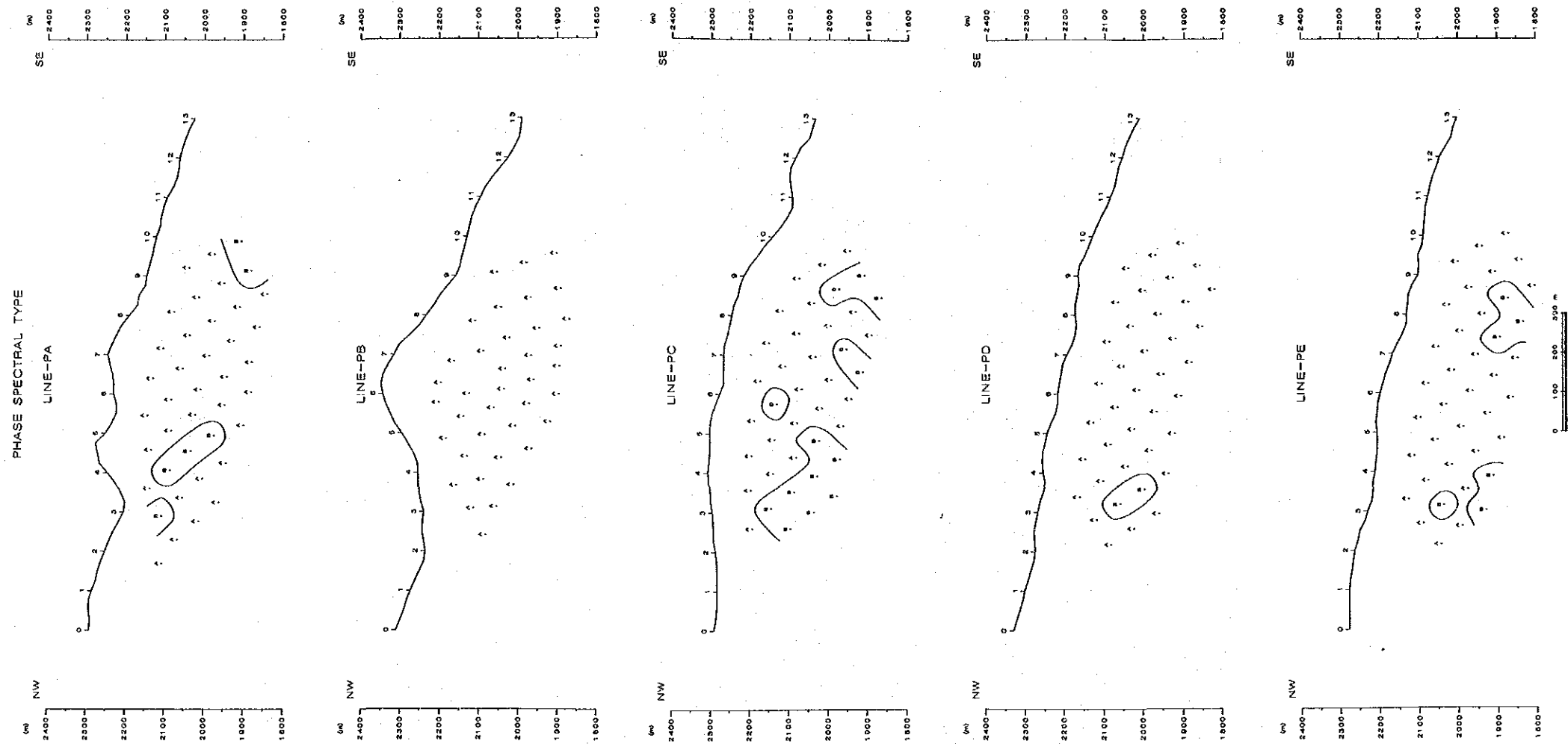
第43図 位相差スペクトル



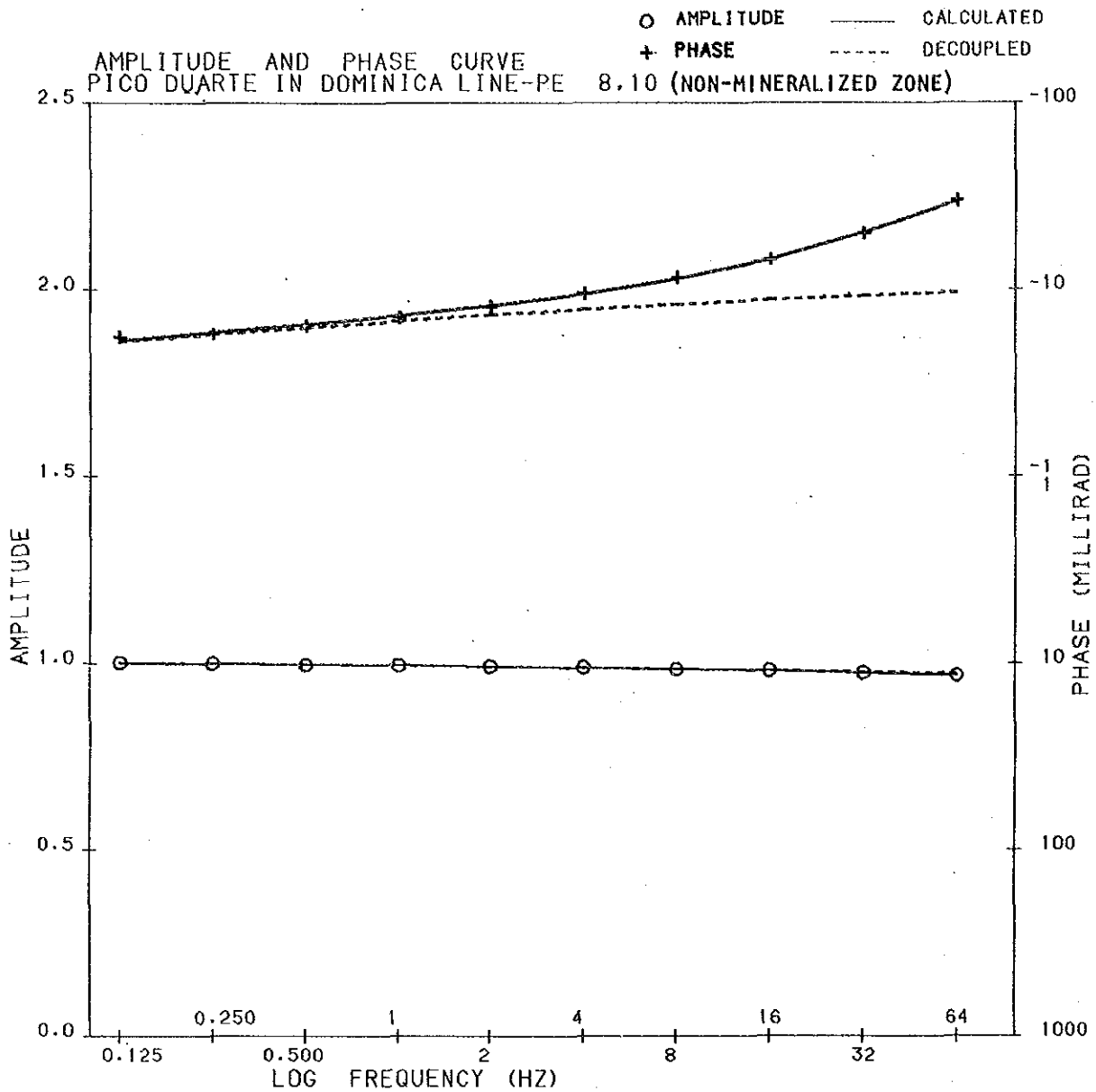
第44図 マグニチュードスペクトル



第45図 コール・コール図



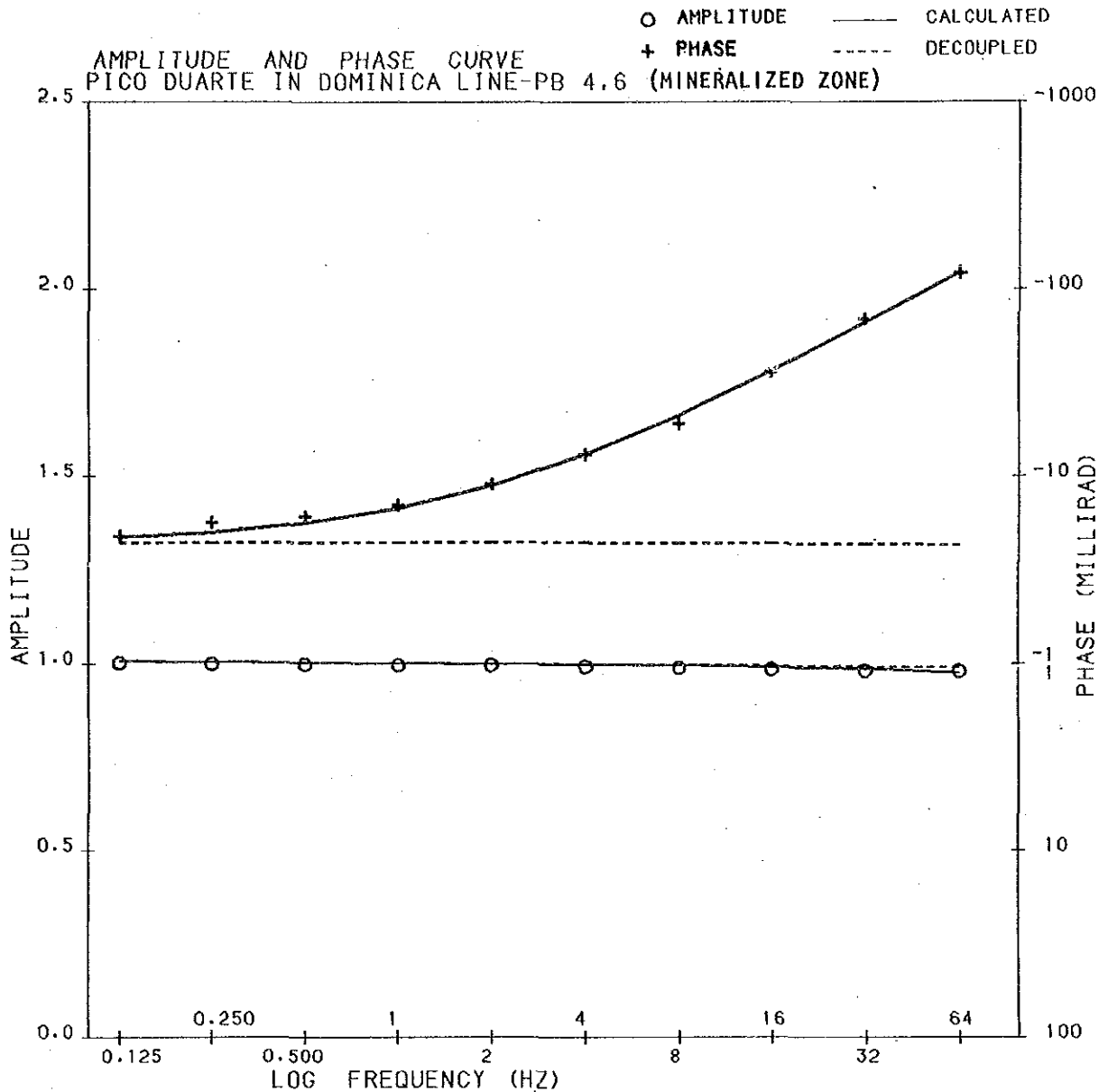
第46図 スペクトルタイプ図



	R0	M1	M2	M3	T1	T2	T3	C1	C2	C3
INITIAL	1.0000	0.3000	0.5000		0.0001	0.0010		0.1000	1.0000	
FINAL	1.0214	0.1396	0.1683		0.0001	0.0002		0.1799	0.9214	
NO.	F (HZ)	AMPLITUDE			PHASE					
		OBSERVED	CALCULATED	DECOUPLED	OBSERVED	CALCULATED	DECOUPLED			
1	0.125	1.0000	0.9997	0.9997	-5.60	-5.36	-5.29			
2	0.250	0.9970	0.9973	0.9973	-5.80	-5.90	-5.77			
3	0.500	0.9940	0.9946	0.9947	-6.40	-6.51	-6.27			
4	1.000	0.9917	0.9918	0.9918	-7.10	-7.23	-6.78			
5	2.000	0.9890	0.9886	0.9887	-8.10	-8.15	-7.30			
6	4.000	0.9860	0.9852	0.9854	-9.50	-9.42	-7.81			
7	8.000	0.9813	0.9815	0.9819	-11.60	-11.36	-8.31			
8	16.000	0.9780	0.9774	0.9782	-14.50	-14.56	-8.79			
9	32.000	0.9720	0.9725	0.9743	-20.00	-20.12	-9.24			
10	64.000	0.9650	0.9658	0.9702	-30.00	-29.92	-9.64			

AMPLITUDE MEASURED AT 0.125 HZ IS 1.0000
 THE SUM OF SQUARES OF RESIDUALS IS 0.00002

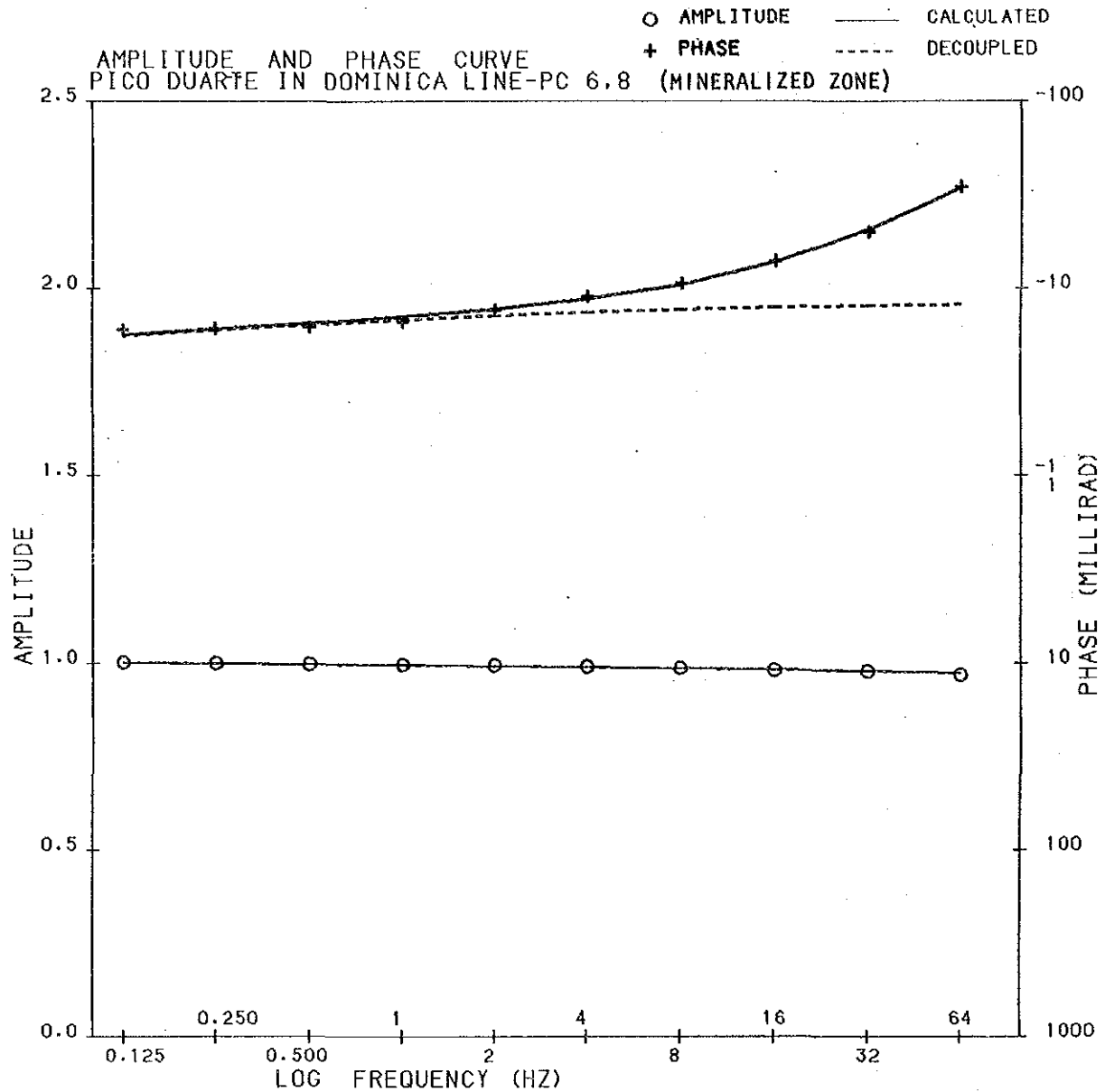
第47-1図 デッカプリング処理図



	R0	M1	M2	M3	T1	T2	T3	C1	C2	C3
INITIAL	1.0000	0.3000	0.5000		0.0001	0.0001		0.0050	1.0000	
FINAL	1.0881	0.1534	1.1622		1.1422	0.0002		0.0676	0.9468	
NO.	F (HZ)	AMPLITUDE			PHASE					
		OBSERVED	CALCULATED	DECOUPLED	OBSERVED	CALCULATED	DECOUPLED			
1	0.125	1.0000	1.0050	1.0050	-4.80	-4.74	-4.42			
2	0.250	0.9980	1.0030	1.0030	-5.70	-5.04	-4.42			
3	0.500	0.9960	1.0010	1.0011	-6.10	-5.62	-4.42			
4	1.000	0.9934	0.9989	0.9991	-7.00	-6.73	-4.42			
5	2.000	0.9930	0.9968	0.9972	-9.00	-8.88	-4.41			
6	4.000	0.9890	0.9945	0.9952	-13.00	-13.02	-4.40			
7	8.000	0.9853	0.9919	0.9933	-19.00	-21.02	-4.38			
8	16.000	0.9820	0.9886	0.9914	-36.00	-36.47	-4.36			
9	32.000	0.9780	0.9836	0.9895	-69.00	-66.23	-4.34			
10	64.000	0.9780	0.9744	0.9876	-122.00	-123.31	-4.31			

AMPLITUDE MEASURED AT 0.125 HZ IS 1.0000
 THE SUM OF SQUARES OF RESIDUALS IS 0.00147

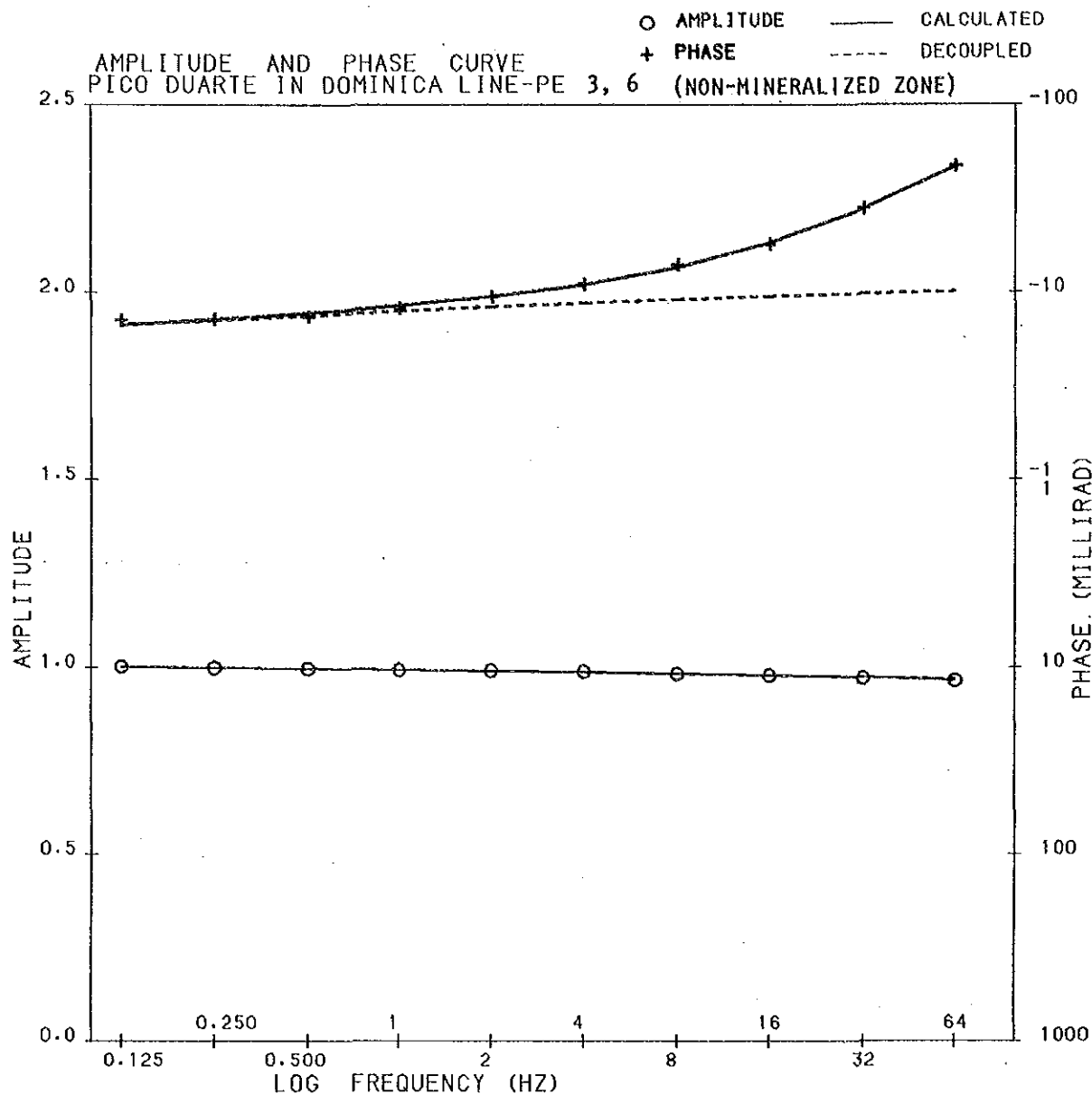
第47-2図 デッカプリング処理図



	R0	M1	M2	M3	T1	T2	T3	C1	C2	C3
INITIAL	1.0000	0.3000	0.5000		0.0001	0.0010		0.0050	1.0000	
FINAL	1.0254	0.1110	0.1848		0.0013	0.0004		0.1778	1.0747	
NO.	F (HZ)	OBSERVED			AMPLITUDE			PHASE		
					CALCULATED	DECOUPLED	OBSERVED	CALCULATED	DECOUPLED	
1	0.125	1.0000	0.9998	0.9998	0.9998	0.9998	-6.00	-5.63	-5.60	
2	0.250	0.9980	0.9973	0.9973	0.9973	0.9973	-6.10	-6.06	-6.00	
3	0.500	0.9950	0.9946	0.9946	0.9946	0.9946	-6.20	-6.52	-6.38	
4	1.000	0.9930	0.9917	0.9917	0.9917	0.9917	-6.60	-7.04	-6.75	
5	2.000	0.9910	0.9887	0.9887	0.9886	0.9886	-7.60	-7.71	-7.10	
6	4.000	0.9880	0.9856	0.9856	0.9854	0.9854	-9.00	-8.72	-7.41	
7	8.000	0.9830	0.9824	0.9824	0.9821	0.9821	-10.60	-10.45	-7.69	
8	16.000	0.9780	0.9793	0.9793	0.9787	0.9787	-14.00	-13.77	-7.92	
9	32.000	0.9750	0.9760	0.9760	0.9752	0.9752	-20.00	-20.53	-8.09	
10	64.000	0.9660	0.9718	0.9718	0.9717	0.9717	-35.00	-34.60	-8.21	

AMPLITUDE MEASURED AT 0.125 HZ IS 1.0000
 THE SUM OF SQUARES OF RESIDUALS IS 0.00014

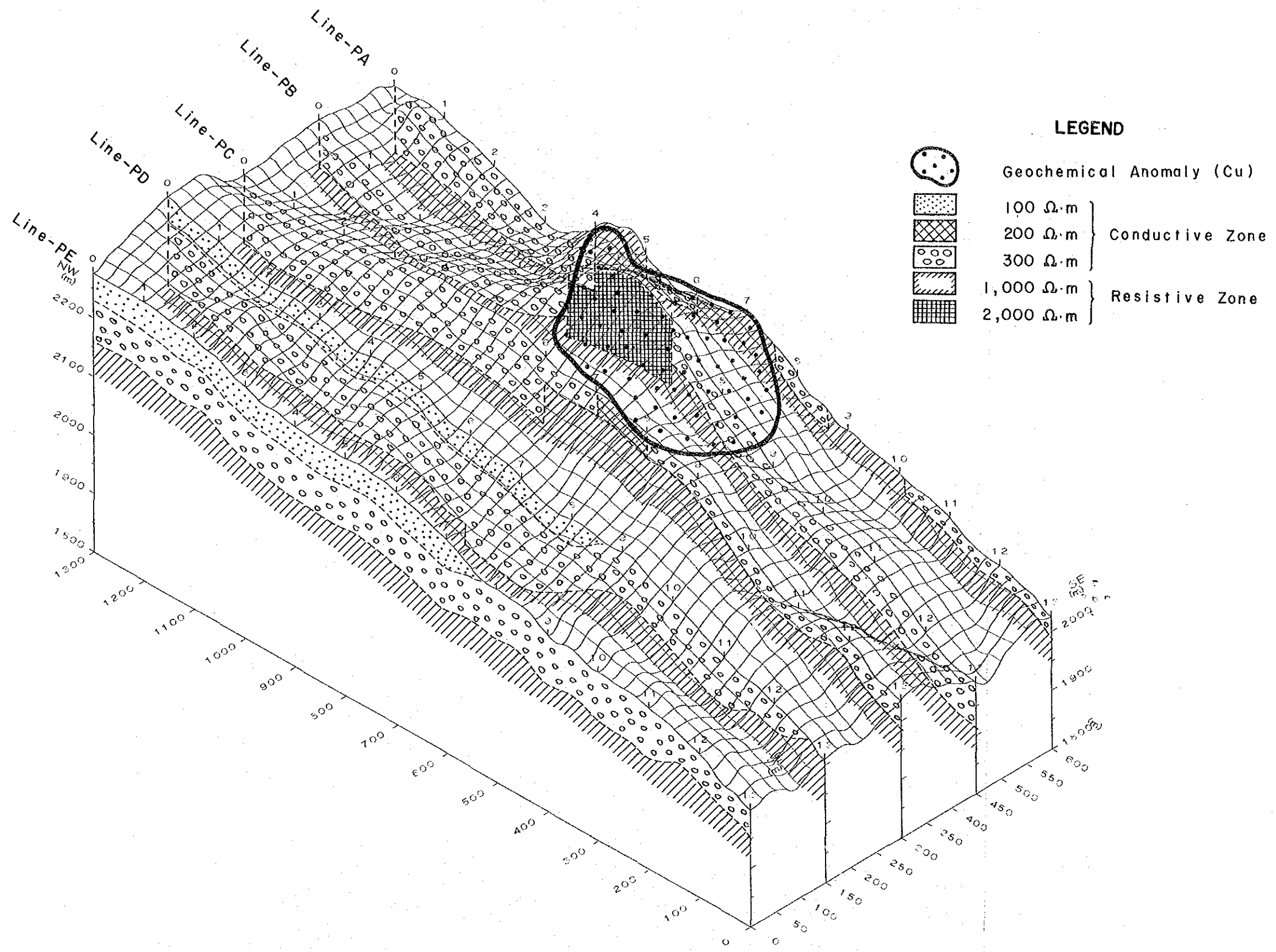
第47-3図 デッカプリング処理図



	R0	M1	M2	M3	T1	T2	T3	C1	C2	C3
INITIAL	1.0000	0.3000	0.5000		0.0001	0.0010		0.1000	1.0000	
FINAL	1.0359	0.1690	0.2217		0.0001	0.0004		0.1473	1.0233	
NO.	F (HZ)	AMPLITUDE			PHASE					
		OBSERVED	CALCULATED	DECOUPLED	OBSERVED	CALCULATED	DECOUPLED			
1	0.125	1.0000	1.0001	1.0001	-7.10	-6.73	-6.67			
2	0.250	0.9970	0.9970	0.9970	-7.20	-7.21	-7.09			
3	0.500	0.9940	0.9938	0.9938	-7.40	-7.76	-7.51			
4	1.000	0.9902	0.9905	0.9904	-8.20	-8.45	-7.93			
5	2.000	0.9880	0.9869	0.9869	-9.40	-9.39	-8.34			
6	4.000	0.9860	0.9832	0.9831	-11.00	-10.88	-8.74			
7	8.000	0.9791	0.9794	0.9793	-14.00	-13.48	-9.12			
8	16.000	0.9750	0.9753	0.9752	-18.00	-18.38	-9.47			
9	32.000	0.9680	0.9707	0.9711	-28.00	-27.96	-9.79			
10	64.000	0.9620	0.9636	0.9668	-47.00	-46.85	-10.07			

AMPLITUDE MEASURED AT 0.125 HZ IS 1.0000
 THE SUM OF SQUARES OF RESIDUALS IS 0.00009

第47-5図 デッカプリング処理図



第48図 総合解析ブロックダイアグラム

III. 結論及び提言

第1章 結 論

第三年次に実施した Constanza (コンスタンサ) 地区における地質調査(精査)及びボーリング調査, 並びに Pico Duarte (ピコ・ドゥアルテ) 地区の物理探査(SIP法)の結果, 得られた結論は次の通りである。

1. Constanza 地区の EI Gramoso (エル・グラモソ) にある含銅鉍脈型鉍化作用はトーナライト貫入岩体と関係を有する鉍化帯で, 鉍化作用の中心は Loma Sito Grande (ロマ・シト・グランデ) 山山頂付近とみられる。
2. Constanza 地区における5孔のボーリング調査では, 2孔にて露頭と同程度の脈に着脈したが, 現時点では組織的開発の対象とするには難しいものと考えられる。
3. Pico Duarte 地区の花崗閃緑岩の中に胚胎されるポーフイリーカッパー型鉍化帯のP-1鉍化帯に対する物理探査(SIP法)では, IP効果は小さかったが, 鉍化変質の珪化を反映する高比抵抗帯が明瞭に解析された。

その珪化帯の規模は長さ300 m, 幅300 m, 深さ150 mとみられる。

第 2 章 提 言

第三年次調査の結論から、次の調査が提案される。

Loma Sito Grande (ロマ・シト・グランデ) 山北斜面地区

本地区は、Loma Sito Grande山の山頂部付近を中心とする銅鉍脈鉍化帯の北半分に相当する。南半分のEl Gramoso 部落を中心とする地帯は、本調査によって鉍化帯の実態が把握されたが、北半分の鉍化帯は全貌が判明していない。

次の調査として、本地区の鉍化帯の賦存状況を把握するため、地質精査及び地化学探査を行うことが望ましい。

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付 録

写真. 1 岩石薄片顕微鏡写真

凡 例

Q : 石 英

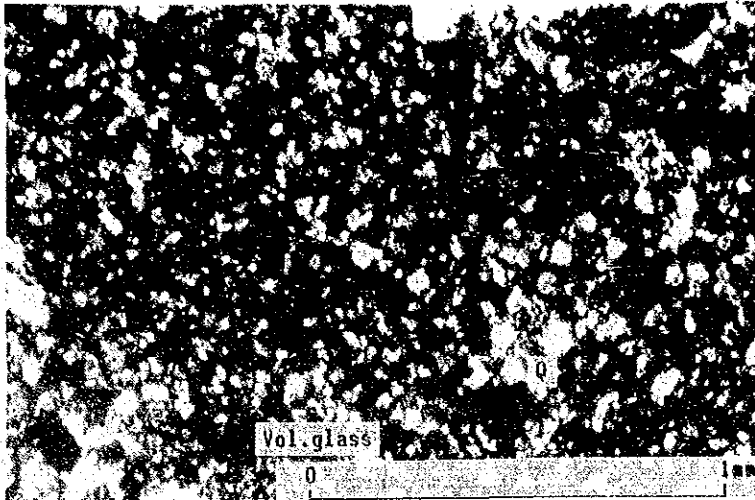
P1 : 斜 長 石

Hb : 普通角閃岩

Chl : 綠 泥 石

Im : 鉄 鉱 物

And frag : 安山岩岩片



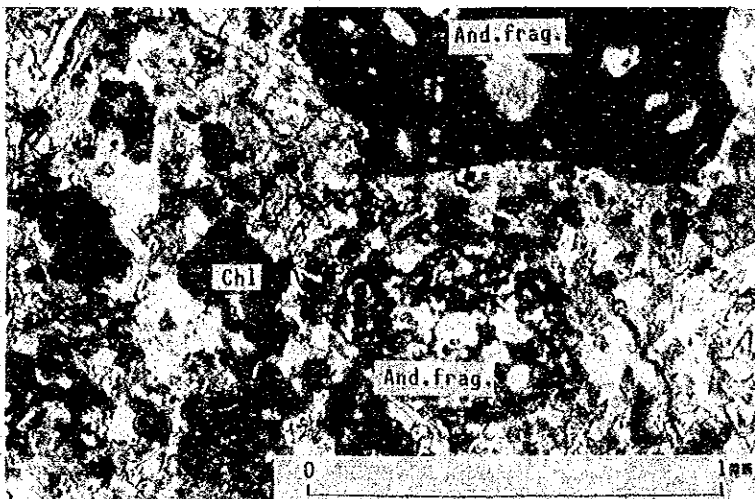
試料番号：GK005

採取位置：アレハンドロ沢

岩石名：安山岩質細粒凝灰岩

組織：火山碎屑

(直交ニコル)



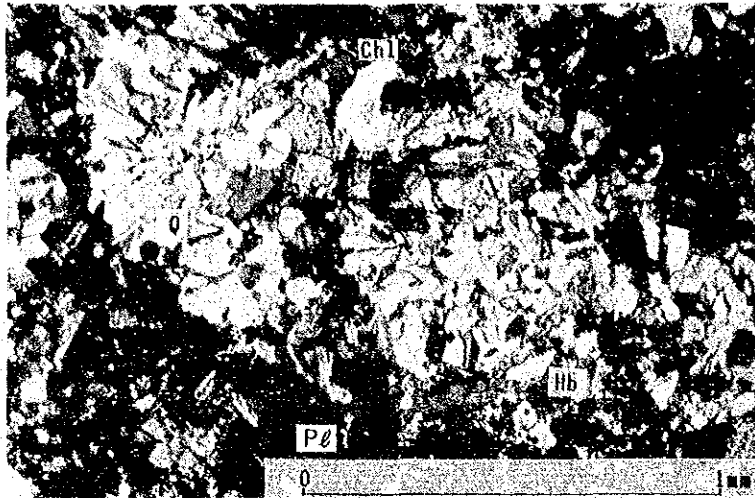
試料番号：GK006

採取位置：エル・グラモン

岩石名：安山岩質粗粒凝灰岩

組織：火山碎屑

(直交ニコル)



(直交ニコル)

試料番号: GK009

採取位置: エル・グラモソ

岩石名: 普通角閃石トーナライト
(Tns)

組織: 完晶質



(直交ニコル)

試料番号: GK002

採取位置: アレハンドロ沢

岩石名: 普通角閃石石英安山岩

組織: 完晶質斑状

写真. 2 鉍石研磨片顯微鏡写真

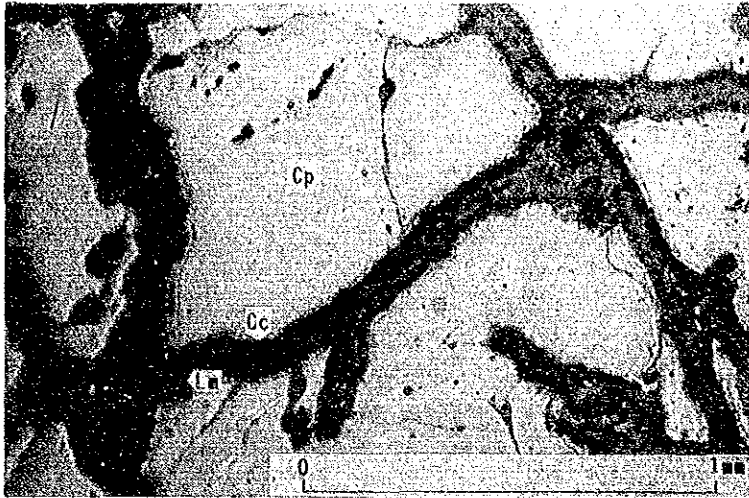
凡 例

Cp : 黄銅鉍

Cc : 輝銅鉍

Cv : 銅 藍

Lm : 褐鉄鉍



試料番号: GK058

採取位置: エル・グラモソ (G-12)

鉱石名: 黄銅鉱-輝銅鉱-褐鉄鉱

(単ニコル)

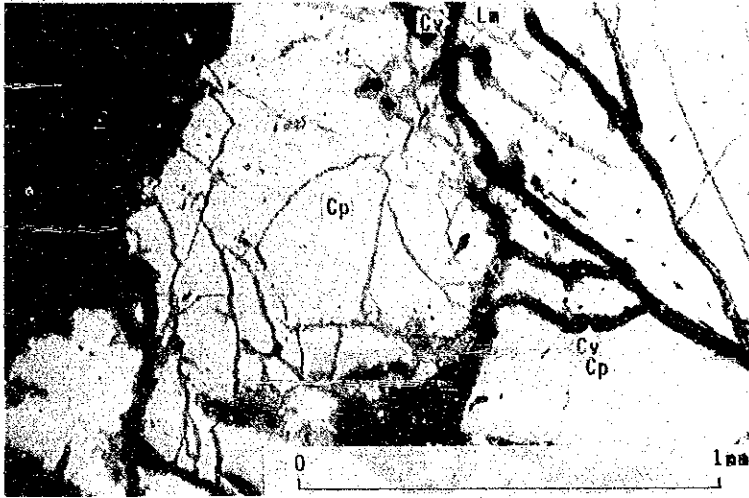


試料番号: GK061 (G-12)

採取位置: エル・グラモソ

鉱石名: 黄銅鉱-輝銅鉱-銅藍鉱

(単ニコル)



試錐孔：DJM-2

深 度：103.40m

鉍石名：黄銅鉍-銅藍-褐鉄鉍鉍石

(単ニコル)

附表 1 岩石薄片檢鏡結果一覽表

(a) Igneous rocks

(1)

No.	Sample No.	Location	Rock Name	Texture	Phenocryst			Groundmass							Secondary Mineral				Remarks					
					Quartz (Q)	Plagioclase (Pl)	Hornblende (Hb)	Augite (Au)	Iron Mineral	Quartz	Plagioclase	Augite	Volcanic glass	Iron Mineral	Epidote	Chlorite	Sericite	Calcite		Quartz				
1	GK002	Ar. Alejandro	Hb-Dacite (Dd)	Halo-crystalline, porphyritic	L	L		A	A	L	L	L	C											Stock dyke
2	GK009	El Gramoso	Hb-tonalite (Tns)	Halo-crystalline, mylonitic	A	A	L																	do.
3	GL011	Loma Sito Grande	Hb-tonalite (Tns)	Halo-crystalline, porphyritic			L																	do.
4	GP004	El Gramoso	Q-pl-porphry (Tns)	do.	C	C	L		L															do.
5	GL022	do.	An-andesite (Tna)	Porphyritic, intergranular	L		L	L	L															lava
6	GP010	do.	An-andesite (Tna)	do.	L		L	L	L															lava

(b) Pyroclastic rocks

(2)

No.	Sample	Location	Rock Name	Texture	Fragment Matrix						Secondary Mineral			Remarks										
					Andesite	Andesitic tuff	Quartz	Volcanic glass	Hematite	Quartz	Epidote	Chlorite	Andesite		Epidote	Chlorite								
7	GK005	Ar. Alejandro	Andesitic fine tuff (Tmatf)	Pyroclastic	C		L	C																
8	GP001	El Gramoso	do.	do.			L	L	C															
9	GK008	do.	Andesitic coarse tuff (Tmatl)	do.	C	L	L	L	C	C	C													
10	GL014	do.	do.	do.	C	L																		

Abundant : A Common : C Little : L

付表 2 鈹石研磨片檢鏡結果一覽表

(a) Geological survey

No.	Sample No.	Location (Mineralized Zone No.)	Ore Name	Pyrite (Py)	Chalcopyrite (Cp)	Chalcocite (Cc)	Covellite (Cv)	Malachite (Mal)	Specularite (Spe)	Limonite (Lm)
1	GK007	El Gramoso	Cp-Mal-Lm-Ore		C			L		A
2	GK031	do. (G-19)	Mal-Cp-Lm-Ore		L			A		A
3	GK032	do. (G-19)	Mal-Cp-Lm-Ore		L			A		A
4	GK043	do. (G-18)	Mal-Cp-Lm-Ore		L		T	L		L
5	GK047	do. (G-18)	Cp-Cc-Mal-Lm-Ore		C	L	T	L		A
6	GK058	do. (G-12)	Cp-Cc-Mal-Lm-Ore		A	L		L		C
7	GK060	do. (G-12)	Mal-Spc-Lm-Ore					L	A	A
8	GK061	do. (G-12)	Cp-Cc-Cv-Lm-Ore		C	L	L		C	C
9	GL016	do.	Mal-Cp-Lm-Ore		L			A		A
10	GL018	do. (G-21)	Cp-Cc-Cv-Py-Lm-Ore	C	C	T	T			C

(b) Drilling survey

No.	Hole No.	Depth	Ore Name	Pyrite (Py)	Sphalerite (Sph)	Chalcopyrite (Cp)	Bornite (Bo)	Chalcocite (Ca)	Covellite (Cv)	Malachite (Mal)	Hematite (Hm)	Limonite (Lm)
1	DJM-1	132.70 m	Cp-Cc-Py-Lm-Ore	L		L		L				T
2	do.	231.00 m	Cp-Cc-Ore			L		L				
3	DJM-2	90.50 m	Cp-Cc-Ore			L		L				
4	do.	103.40 m	Cp-Cv-Py-Lm-Ore	L		C			L			L
5	DJM-3	192.50 m	Cp-Bo-Py-Hm-Ore	L		C	L				L	
6	do.	228.47 m	Cp-Shp-Py-Ore	L	L	L		T				
7	DJM-4	52.50 m	Cp-Ore			L						
8	do.	60.30 m	Cp-Shp-Py-Ore	L	L	C						
9	DJM-5	42.50 m	Cc-Cp-Mal-Lm-Ore			L		C		L		L
10	do.	143.00 m	Cp-Cc-Lm-Ore	L		A					L	

Abundant : A Common : C Little : L Trace : T

附表 3 X線回折結果一覽表

(a) Geological survey

(1)

No.	Sample No.	Location	Chlorite	Epote	Sericite	Quartz	Calcite	Plagioclase	Hornblende	Fe/Fe+Mg in chlorite	Remarks
1	GK001	El Gramoso (north of G-16)	A			A	A			0.36	Andesitic coarse tuff with py dissemination
2	GK002	do.	L			A	A			0.80	do.
3	GK003	do.	C		L	A				0.20	do.
4	GK005	do.	C			C	C	L		0.48	Andesitic coarse tuff
5	GK007	do.	C	L		A				0.46	Wall rock of Cu vein (andesitic coarse tuff)
6	GK008	do.	C	L		C	C			0.36	Andesitic coarse tuff
7	GK009	do.	L			A	A			0.34	Tonalite
8	GK031-1	do. (G-19)	A			A				0.88	Wall rock of Cu vein (andesitic tuff)
9	GK033	do. (do.)	A			A				0.90	do.
10	GK037	do. (do.)	A			A				0.48	do.
11	GK040	do. (North of G-19)	C			A				0.58	Wall rock of Cu vein (andesitic lapilli tuff)
12	GK041	do. (do.)	A			A				0.64	do.
13	GK048	do. (G-18)	A	L		A				0.56	Wall rock of Cu vein (andesitic tuff)
14	GK049	do. (do.)	C	L		A				0.56	do.
15	GK050	do. (G-12)	C	L		A	A			0.48	Wall rock of Cu vein (andesitic tuff)
16	GK052	do. (do.)	A	L		A				0.36	do.
17	GK056	do. (do.)	C			A				0.56	do.
18	GK061	do. (do.)	C			A				0.38	do.
19	GK062	do. (do.)	A			A				0.60	do.
20	GK065	do. (G-17)	A			C				0.48	do.
21	GK066	do. (do.)	C			A				0.28	do.
22	GK082	do. (North of G-19)	L			A	A			0.36	Altered andesitic lapilli tuff
23	GK071	do. (Trench No.1)	A			A				0.60	Wall rock of Cu vein (andesitic fine tuff)
24	GK075	do. (Trench No.4)	A			A				0.56	do. (andesitic lapilli tuff)
25	GK081	do. (do.)	A			A				0.60	do. (do.)
26	GK087	do. (G-21)	A			A				0.78	do. (do.)
27	GK091	do. (do.)	A			A				0.80	do. (do.)
28	GK095	do. (Trench No.5)	A	C		A				0.82	do. (do.)
29	GL001	do.	C			C	C			0.44	Andesitic lapilli tuff
30	GL011	do.	L	L		A	C			0.20	Tonalite
31	GL013	do.	C			A				0.50	Wall rock of Cu-vein (andesitic tuff)
32	GL014	do.	C			A				0.86	Andesitic coarse tuff
33	GL016	do. (G-17)	C	A		C				0.20	Wall rock of Cu-vein (andesitic tuff)
34	GL017	do. (do.)	A			A				0.50	Wall rock of Cu-vein (andesitic tuff)
35	GL020		A				A	C		0.52	Wall rock of Cu vein (andesitic coarse tuff)

No.	Sample No.	Location	Chlorite	Epidote	Sericite	Quartz	Calcite	Plagioclase	Hornblende	Fe/Fe+Mg in chlorite	Remarks
36	GL023	El gramoso	C	L		A				0.50	Wall rock of Cu vein (andesitic coarse tuff)
37	GL024	do.	C			A		C		0.54	Wall rock of Cu vein (Tonalite)
38	GP001	do.	C			A	L	L		0.40	Andesitic coarse tuff
39	GP004	do.	L			A	L	A		0.48	Tonalite
40	GP006	do.	C			A	L	A		0.62	Dacite with py dissemination
41	GP007	do.	A	C			A			0.94	Wall rock of Cu vein (andesitic tuff)
42	GP009	do.	C	L		A		A		0.80	Tonalite
43	GP010	do.	L	L		A		A		0.52	Andesite
44	GP011	do.	C			A				0.62	Dacite
45	GP012	do.	L			A				0.16	Silicified rock
46	GP016	do.	C			A				0.42	Wall rock of Cu vein (andesitic tuff)
47	GP017	do.	A			A				0.64	do. (do.)
48	GP018	do.	C			A				0.70	do. (do.)
49	GP020	do.				A				-	do. (do.)
50	GG001	do.	C			A	L			0.50	do. (do.)
51	GG004	do.	C			A		A		0.50	Andesite

Abundant : A Common : C Little : L

(b) Drilling survey

(3)

No.	Sample No.	Depth (m)	Chlorite	Epfofe	Sericite	Quartz	Calcite	Plagioclase	Hornblende	Fe/FerMg in chlorite	Remarks
1	DJM-1	132.70 m	A	C	A					0.40	Wall rock of Cu vein (andesitic fine tuff)
2	do.	191.40 m	A	C	A					0.42	do. (do.)
3	do.	230.85 m	A	C	A					0.20	do. (andesitic coarse tuff)
4	do.	240.70 m	A	C	A					0.26	do. (do.)
5	do.	247.50 m	A				L			0.24	Hematitized andesitic fine tuff
6	DJM-2	72.70 m	A	A	A					0.40	Wall rock of Ep-Q vein (andesitic lapilli tuff)
7	do.	88.30 m	A		A					0.38	Wall rock of Cu vein (andesitic fine tuff)
8	do.	103.30 m	A		A					0.36	do. (do.)
9	DJM-3	65.75 m	A	C	A	L				0.70	do. (andesitic coarse tuff)
10	do.	154.60 m	A	A		L	L			0.42	Hematitized andesitic lapilli tuff
11	do.	192.50 m	A		A	L				0.42	Wall rock of Qv vein (andesitic lapilli tuff)
12	do.	194.60 m	A		A	L				0.44	do. (do.)
13	DJM-4	60.20 m	A	C	A	L				0.32	do. (do.)
14	do.	92.40 m	A		A	L				0.20	Wall rock of Q-Hm vein (andesitic fine tuff)
15	do.	122.50 m	A		C	L				0.36	Hematitized andesitic fine tuff
16	DJM-5	49.00 m	A		A					0.42	Strongly silicified andesitic coarse tuff
17	do.	70.80 m	A	A	A					0.68	Wall rock of Cu vein (andesitic coarse tuff)
18	do.	143.00 m	A	C	A					0.72	do. (do.)

Abundant : A Common : C Little : L

附表 4 分析結果一覽表

(a) Geological survey

(1)

No.	Sample No.	Location (Mineralized Zone No.)	Description	Au (g/t)	Ag (g/T)	Cu (%)	Pb (%)	Zn (%)
1	GK001	El Gramoso	Py dissemination in andestic coarse tuff	tr.	tr.	0.03	0.08	0.05
2	GK003	do.	do.	tr.	tr.	0.02	0.02	0.03
3	GK004	do.	Hm, Lm, Q.v	tr.	tr.	0.03	0.02	0.02
4	GK007	do.	Cp; Mal, Lm, Ep, Q.v	0.13	4.9	0.85	0.04	0.01
5	GK030	do. (G-19)	Mal, Cp, Lm, Q.v	0.20	19.3	2.81	0.07	0.05
6	GK031	do. (do.)	do.	0.67	45.9	7.24	0.09	0.03
7	GK032	do. (do.)	do.	0.30	28.2	2.55	0.04	0.02
8	GK034	do. (do.)	do.	0.20	18.1	4.50	0.05	0.02
9	GK035	do. (do.)	do.	0.10	7.2	1.60	0.07	0.05
10	GK036	do. (do.)	do.	0.40	17.9	5.13	0.09	0.05
11	GK038	do. (do.)	do.	0.50	18.4	1.29	0.02	0.02
12	GK039	do. (North of G-19)	Mal, Cp, Cc, Lm, Q.v	0.40	20.4	1.45	0.02	0.02
13	GK042	do. (G-18)	Mal, Cc, Lm, Q.v	0.10	2.2	1.94	0.02	0.05
14	GK043	do. (do.)	Mal, Cp, Lm, Q.v	0.30	4.3	2.99	0.04	0.01
15	GK044	do. (do.)	Q.v	0.20	3.6	0.93	0.02	0.05
16	GK045	do. (do.)	do.	0.10	0.9	0.04	0.02	0.02
17	GK046	do. (do.)	do.	0.10	1.2	0.19	0.02	0.05
18	GK047	do. (do.)	do.	0.50	15.0	2.37	0.02	0.05
19	GK051	do. (G-12)	Mal, Cp, Lm, Q.v	0.30	6.2	1.02	0.02	0.02
20	GK053	do. (do.)	Mal, Cp, Py, Q.v	0.40	8.0	2.61	0.03	0.02
21	GK054	do. (do.)	Q.v	0.30	2.6	0.67	0.02	0.02
22	GK055	do. (do.)	Mal, Lm, Q.v	0.67	22.1	4.46	0.03	0.01
23	GK057	do. (do.)	Q.v	0.20	5.9	0.45	0.04	0.03
24	GK058	do. (do.)	Mal, Cp, Py, Q.v	0.50	22.2	3.33	0.02	0.01
25	GK059	do. (do.)	Mal, Cp, Lm, Q.v	0.30	10.8	4.84	0.02	0.03
26	GK060	do. (do.)	Mal, Cp, Lm, Q.v	0.10	4.1	1.95	0.03	0.05
27	GK061	do. (do.)	Strongly chloritized tuff	0.60	34.4	3.56	0.02	0.03
28	GK063	do. (South of G-12)	Mal, Q.v	0.10	2.0	0.18	0.02	0.02
29	GK064	do. (G-17)	Py, Lm, Ep, Q.v	0.40	4.6	0.32	0.02	0.05
30	GK067	do. (do.)	Mal, Py, Lm, Ep, Q.v	0.10	1.2	0.08	0.02	0.02
31	GK069	do. (Trench No.1)	Mal, Cp, Lm, Q.v	0.20	4.2	0.41	0.02	0.01
32	GK070	do. (do.)	Mal, Lm, Q, Epv	0.40	28.1	2.10	0.02	0.01
33	GK071	do. (do.)	Mal, Cp, Py, Lm, Q.v	0.20	17.2	0.86	0.07	0.01
34	GK076	do. (Trench No.5)	Mal, Cp, Cc, Q.v	0.10	5.4	0.64	0.02	0.01
35	GK077	do. (do.)	do.	0.20	12.4	0.87	0.03	0.01
36	GK078	do. (do.)	do.	0.20	71.9	6.61	0.08	0.02
37	GK079	do. (do.)	do.	0.50	20.9	2.86	0.09	0.03
38	GK080	do. (do.)	do.	0.20	55.1	5.94	0.04	0.01

No.	Sample No.	Location (Mineralized Zone No.)	Description	Au (g/T)	Ag (g/T)	Cu (%)	Pb (%)	Zn (%)
39	GK085	El Gramoso (G-21)	Mal, Lm, Q.v					
40	GK086	do. (do.)	Mal, Cp, Lm, Q.v	tr.	tr.	14.41	0.16	0.01
41	GK087	do. (do.)	do.	0.10	2.8	2.16	0.17	0.01
42	GK088	do. (do.)	do.	0.10	4.3	1.73	0.15	0.02
43	GK089	do. (do.)	do.	0.30	117.9	6.03	0.20	0.21
44	GK090	do. (do.)	Mal, Cp, Lm, Q.v	0.50	40.6	4.03	0.22	0.05
45	GK094	do. (Trench No.3)	Mal, Cp, Spc, Lm, Q, Ep.v	0.10	4.9	0.36	0.09	0.01
46	GK095	do. (Trench No.4)	Lm, Q, Ep.v	tr.	tr.	0.19	0.02	0.02
47	GK096	do. (Trench No.2)	Mal, Spc, Lm, Q, Ep.v	0.30	8.7	2.88	0.03	0.10
48	GK097	do. (do.)	do.	tr.	tr.	0.21	0.02	0.05
49	GK098	do. (do.)	do.	0.2	3.6	0.83	0.08	0.05
50	GL013	do.	Mal, Spc, Q.v	tr.	0.8	1.17	0.02	0.02
51	GL016	do.	Mal, Cp, Spc, Q.v	0.70	165.0	7.85	0.08	0.10
52	GL017	do.	Lm, Q.v	0.30	9.3	0.40	0.10	0.60
53	GL023	do.	Lm, Q.v	tr.	1.1	0.05	0.02	0.05
54	GL024	do.	Lm, Spc, Mal, Q.v	0.25	3.7	3.76	0.02	0.01
55	GP007	do.	Cp, Mal, Lm, Spc, Q.v	0.30	4.3	1.35	0.02	0.01
56	GP008	do. (G-22)	Cp, Shp, Q.v	0.38	10.6	2.27	0.07	12.56
57	GP016	do.	Mal, Spc, Q.v	0.50	65.6	2.00	0.04	0.01
58	GP017	do.	Cp, Mal, Spc, Q.v	0.20	11.6	1.73	0.03	0.03
59	GP018	do.	do.	0.40	27.9	2.97	0.02	0.02
60	GP020	do.	do.	0.88	90.7	5.44	0.02	0.01

(b) Drilling survey

(3)

No.	Hole No.	Depth (m)	Description	Au (g/T)	Ag (g/T)	Cu (%)	Pb (%)	Zn (%)
1	DJM-1	43.50-43.55	Ep,v	tr.	tr.	0.17	0.02	0.01
2	do.	125.00-125.55	Q, Ca,v	tr.	tr.	0.05	0.02	0.01
3	do.	132.45-132.65	Mal, Cp, Q, Ep,v	0.1	2.0	0.35	0.02	0.05
4	do.	132.75-132.80	Mal, Cp, Q, Ep,v	tr.	1.9	0.35	0.02	0.03
5	do.	143.60-143.64	Ep, Q, Ca,v	tr.	0.2	0.04	0.02	0.01
6	do.	159.30-159.40	Cp, Sph, Py, Ep, Q,v	tr.	1.5	0.31	0.02	0.83
7	do.	168.30-168.35	Q, Ca,v	tr.	tr.	0.06	0.03	0.03
8	do.	191.30-191.40	Ep, Q,v	tr.	1.1	0.06	0.02	0.02
9	do.	192.90-193.00	Cp, Py, Ep, Q,v	tr.	tr.	0.20	0.02	0.01
10	do.	222.70-222.80	Q, Ca,v	tr.	tr.	0.08	0.02	0.01
11	do.	230.75-231.05	Cp, Py, Ep, Q,v	tr.	1.3	0.24	0.02	0.01
12	do.	242.30-242.60	Hm, Py, Q,v	tr.	tr.	0.06	0.02	0.01
13	do.	245.50-246.30	Q,v	tr.	tr.	0.04	0.02	0.01
14	do.	247.55-247.65	Q, Ca,v	0.1	8.3	0.03	0.02	0.01
15	DJM-2	32.70-32.80	Ep, Q,v	tr.	tr.	0.11	0.02	0.11
16	do.	50.15-50.25	Ep,v	tr.	tr.	0.04	0.02	0.01
17	do.	72.55-72.75	Ep,v	tr.	tr.	0.03	0.02	0.00
18	do.	73.00-73.10	Ep, Q,v	tr.	tr.	0.03	0.03	0.00
19	do.	74.50-74.60	Ep,v	tr.	1.1	0.04	0.04	0.00
20	do.	76.00-76.40	Q, Ca,v	tr.	tr.	0.05	0.02	0.00
21	do.	87.50-87.65	Cp, Py, Q,v	0.2	30.3	3.76	0.02	0.02
22	do.	88.65-88.80	Cp, Py, Q,v	0.1	20.1	2.65	0.02	0.01
23	do.	89.45-89.60	Cp, Py, Q,v	tr.	1.9	0.40	0.02	0.03
24	do.	89.90-90.05	Cp, Py, Q,v	0.1	11.7	2.94	0.02	0.03
25	do.	90.40-90.75	Cp, Py, Q,v	0.2	16.4	2.37	0.02	0.05
26	do.	91.35-91.70	Cp, Py, Q,v	0.1	9.1	1.78	0.01	0.01
27	do.	95.30-95.40	Cp, Py, Q,v	tr.	1.7	0.41	0.03	0.01
28	do.	99.60-99.80	Cp, Py, Q,v	0.2	12.0	1.97	0.02	0.02
29	do.	100.80-100.85	Cp, Py, Q,v	0.3	23.2	3.19	0.01	0.02
30	do.	101.20-101.30	Cp, Py, Q,v	0.1	7.9	1.38	0.02	0.05
31	do.	101.50-101.70	Cp, Py, Q,v	tr.	8.4	0.97	0.02	0.02
32	do.	103.20-104.05	Cp, Py, Sph, Q,v	0.2	22.3	2.71	0.02	0.73
33	DJM-3	35.10-35.13	Cp, Py, Q,v	tr.	2.1	0.45	0.01	0.01
34	do.	65.80-66.85	Cp, Py, Q, Ca, Ep,v	tr.	2.5	0.40	0.02	0.06
35	do.	113.0-113.0	Cp, Py, Ep, Q,v	tr.	1.1	0.29	0.01	0.01
36	do.	139.15-139.20	Cp, Py, Q,v	0.1	4.3	0.93	0.02	0.01
37	do.	156.85-156.88	Cp, Py, Hm, Ep,v	tr.	0.8	0.29	0.02	0.01
38	do.	165.60-166.00	Cp, Py, Q,v	tr.	tr.	0.07	0.02	0.02

No.	Hole No.	Depth (mm)	Description	Au (g/T)	Ag (g/T)	Cu (%)	Pb (%)	Zn (%)
39	DJM-3	174.60-174.80	Py, Q, Ca, Ep,v	tr.	tr.	0.05	0.02	0.03
40	do.	183.15-183.40	Cp, Py, Q, Ca,v	0.1	3.7	0.75	0.02	0.01
41	do.	189.40-189.70	Mal, Py, Lm, Q, Ca,v	0.2	4.2	0.59	0.09	0.01
42	do.	192.30-192.80	Cp, Py, Q, Ca,v	tr.	1.4	0.17	0.04	0.05
43	do.	193.70-194.50	Cp, Py, Q, Ca,v	tr.	2.2	0.41	0.02	0.03
44	do.	197.70-197.75	Cp, Py, Q, Ca, Ep,v	tr.	tr.	0.23	0.02	0.01
45	do.	228.45-228.50	Cp, Sph, Py, Q, Ca,v	tr.	tr.	0.16	0.04	2.09
46	DJM-4	52.45- 52.60	Cp, Py, Q, Ep,v	0.1	1.4	0.74	0.02	0.02
47	do.	60.20- 60.45	Cp, Py, Sph, Q, Ep, Ca,v	0.4	22.5	5.71	0.04	0.26
48	do.	74.80- 75.00	Q, Ca, Ep,v	tr.	tr.	0.06	0.03	0.02
49	do.	90.70- 90.85	Q, Hm, Ca,v	tr.	tr.	0.07	0.02	0.01
50	do.	93.00- 93.75	Q, Hm, Ca,v	tr.	tr.	0.24	0.02	0.01
51	do.	106.35-106.50	Q, Ep, Ca,v	tr.	tr.	0.06	0.02	0.01
52	DJM-5	40.50- 40.70	Mal, Cp, Cc, Py, Q,v	0.3	13.1	2.74	0.02	0.03
53	do.	47.80- 48.20	Mal, Cp, Py, Q,v	0.2	7.8	1.03	0.02	0.02
54	do.	58.60- 61.00	Mal, Cp, Py, Lm, Q,v	tr.	1.3	0.43	0.02	0.03
55	do.	61.50- 61.90	Mal, Cp, Cc, Py, Lm, Q,v	0.6	25.8	5.41	0.10	0.05
56	do.	68.60- 68.70	Py, diss.	tr.	tr.	0.07	0.02	0.01
57	do.	71.40- 71.60	Py, Cp, Q, Ep,v	0.1	2.0	0.92	0.02	0.01
58	do.	72.20- 73.00	Cp, Py, Q, Ep,v	tr.	1.1	0.36	0.02	0.02
59	do.	121.90-123.00	Cp, Py, diss.	tr.	Tr	0.20	0.02	0.01
60	do.	142.00-142.50	Py, diss.	tr.	tr.	0.04	0.02	0.01
61	do.	142.80-143.80	Cp, Py, diss.	tr.	1.7	0.32	0.02	0.01

付表 5 掘進実績表

Drill Hole No.	Machine Type	Drilling Period	Drilled Length	Core		Number of Drilling Shift			Drilling Speed		Remarks
				Length	Recovery	Drilling	Casing etc.	Total	m/shift*	m/shift**	
DJM-1	TOM-3	Aug. 3, '85~ Sep. 2, '85	250.20 ^m	247.20 ^m	100 %	53	1	54	4.63	4.72	
DJM-2	TOM-3	Sep. 3, '85~ Sep. 20, '85	150.50	147.50	100	26	1	27	5.57	5.79	
DJM-3	TOM-3	Sep. 21, '85~ Oct. 6, '85	250.40	246.40	100	29	1	30	8.35	8.63	
DJM-5	TOM-3	Oct. 7, '85~ Oct. 27, '85	201.00	183.00	99.51	35	1	36	5.58	5.74	
DJM-4	TOM-3	Oct. 28, '85~ Nov. 6, '85	150.40	147.40	100	14	1	15	10.03	10.74	
Total			1002.50	971.50		157	5	162	6.19	6.39	

Notes: * Drilling Length per one shift covering total works operated
 ** Drilling Length per one shift covering net drilling operations

付表 6-1 掘進結果記録表 DJM-1

Drilling Period	Periods		Number of Days	Actual Working Days	Pay off	Total Number of Workers
	Aug. 3, 1985 ~ Aug. 13, 1985	Aug. 14, 1985 ~ Aug. 31, 1985				
Preparation.			11	11	0	204
Drilling			18	18	0	275
Removing			2	2	0	34
Total			31	31	0	513
Drilling Length	Planned Length	Overburden	Core Recovery for Each 100 m Section			
	Increase or Decrease in Length	Core Length	Depth (m)	Section (%)	Total (%)	
Drilling Length	250.00mm	3.00 m				
	+0.20 m	247.20 m				
Drilling Length	250.20 m	Core Recovery	0-100	100	100	
	220°	51.64 %	100-200	100	100	
Drilling Length	206°	48.36	200-250.20	100	100	
	0°	0	300-400			
Working Time	Total	426°	Drilling Efficiency			
	Preparation	124°	250.20m/18 days (Total Length (m) / Drilling Period)		13.90 m/Day	
Working Time	Moving	8°	250.20m/18 days (Total Length (m) / Working Days)		13.90 m/Day	
	Others	136°	250.20m/18 days (Total Length (m) / Net Drilling Days)		13.90 m/Day	
Working Time	Grand Total	694°	275men/250.20m (Net Drilling Workers / Total Length (m))		1.10 men/m	
	Pipe size & Inserted Length (m)	Inserted Length x 100% Recovery of Drilling Length	Remarks			
Inserted Casing Pipe	NW CP	3.00	1.20	100		
	BW CP	92.10	36.81	100		

付表 6-2 掘進業果記録表 DJM-2

Drilling Period	Periods		Number of Days	Actual Working Days	Pay off	Total Number of Workers
	Sep. 3, 1985 ~ Sep. 8, 1985	Sep. 9, 1985 ~ Sep. 17, 1985				
Preparation			6	6	0	102
Drilling			9	9	0	81
Removing			3	3	0	51
Total			18	18	0	234
Planned Length	150.00m	Overburden	3.00 m	Core Recovery for Each 100 m Section		
Increase or Decrease in Length	+0.50 m	Core Length	147.50 m	Depth(m)	Section (%)	Total (%)
Drilled Length	150.50 m	Core Recovery	100 %	0-100	100	100
Drilling	91°	42.13 %	22.30 %	100-150.50	100	100
Accompanying Works	125°	57.87	30.64	200-300		
Repairing	0°	0	0	300-400		
Total	216°	100 %		Drilling Efficiency		
Preparation	152°		37.25	150.50m/9 days (Total Length (m) / Drilling Period)		
Moving	32°		7.84	150.50m/9 days (Total Length (m) / Working Days)		
Others	8°		1.97	150.50m/9 days (Total Length (m) / Net Drilling Days)		
Grand Total	408°		100 %	234men/150.50m (Net Drilling Workers / Total Length (m))		
Pipe size & Inserted Length (m)	Inserted Length x 100% Recovery of Drilling Length		Remarks			
NW CP	15.00	9.97	100			
BW CP	78.10	51.89	100			

付表 6-3 掘進結果記録表 DIM-3

Drilling Period	Periods		Number of Days	Actual Working Days	Pay off	Total Number of Workers
	Sep. 21, 1985 ~ Sep. 23, 1985	Sep. 24, 1985 ~ Oct. 3, 1985				
Preparation			3	3	0	43
Drilling			10	10	0	90
Removing			3	3	0	36
Total			16	16	0	169
Drilling Length	Planned Length	250.00m	Overburden	4.00 m	Core Recovery for Each 100 m Section	
	Increase or Decrease in Length	+ 0.40 m	Core Length	246.40 m	Depth(m)	Total (%)
Drilling Length	Drilled Length	250.40 m	Core Recovery	100 %	0-100	100
	Drilling	141°	59.24 %	38.32 %	100-200	100
Working Time	Accompanying Works	97°	40.76	26.36	200-250.40	100
	Repairing	0°	0	0	300-400	100
Working Time	Total	238°	100		Drilling Efficiency	
	Preparation	88°		23.91	250.40m/10 days(Drilling Period)	25.04 m/Day
Working Time	Moving	34°		9.24	250.40m/10 days(Working Days)	25.04 m/Day
	Others	8°		2.17	250.40m/10 days(Net Drilling Days)	25.04 m/Day
Working Time	Grand Total	368°		100 %	169 men/250.40m(Net Drilling Workers)	0.67 men/m
	Pipe size & Inserted Length (m)	Inserted Length x100% Recovery of Drilling Length	Recovery of Casing Pipe(%)	Remarks		
Inserted Casing Pipe	NW CP	4.00	1.60	100		
	BW CP	128.20	51.20	100		

付表6-4 掘進結果記録表 DJM-4

Drilling Period	Periods			Number of Days	Actual Working Days	Pay off	Total Number of Workers
	Oct. 28, 1985 ~ Oct. 30, 1985	Oct. 31, 1985 ~ Nov. 4, 1985	Nov. 5, 1985 ~ Nov. 6, 1985				
Preparation				3	3	0	51
Drilling				5	5	0	45
Removing				2	2	0	30
Total				10	10	0	126
Planned Length	150.00m	Overburden	3.00 m	Core Recovery for Each 100 m Section			
Increase or Decrease in Length	+ 0.40 m	Core Length	147.40 m	Depth(m)	Section(%)	Total(%)	
Drilled Length	150.40 m	Core Recovery	100 %	0-100	100	100	
Drilling	75°	66.96 %	42.13 %	100-150.40	100	100	
Accompanying Works	37°	33.04	20.79	200-300			
Repairing	0°	0	0	300-400			
Total	112°	100 %		Drilling Efficiency			
Preparation	8°		4.49	150.40m/5 days (Total Length (m) / Drilling Period)			30.05 m/Day
Moving	58°		32.59	150.40m/5 days (Total Length (m) / Working Days)			30.05 m/Day
Others	0°		0	150.40m/5 days (Total Length (m) / Net Drilling Days)			30.05 m/Day
Grand Total	178°		100 %	125 men/150.40m (Net Drilling Workers / Total Length (m))			0.84 men/m
Pipe size & Inserted Length (m)	Inserted Length x 100% / Drilling Length	Recovery of Casing Pipe(%)	Remarks				
NW CP 3.00	1.99	100					
BW CP 100.20	66.62	100					

付表6-5 掘進結果記録表 DJM-5

Drilling Period	Periods		Number of Days	Actual Working Days	Pay off	Total Number of Workers	
	Oct. 7, 1985 ~ Oct. 13, 1985	Oct. 14, 1985 ~ Oct. 25, 1985					
Preparation			6	6	0	101	
Drilling			12	12	0	108	
Removing			2	2	0	34	
Total			20	20	0	243	
Planned Length	200.00m	Overburden	17.10 m				Core Recovery for Each 100 m Section
Increase or Decrease in Length	+ 1.00 m	Core Length	183.00 m				
Drilled Length	201.00 m	Core Recovery	99.51 %				Total (%)
Drilling	118°	41.84 %	33.52 %				98.91
Accompanying Works	164°	58.16	46.59				99.51
Repairing	0°	0	300-400				
Total	282°	100 %	100-200				100
			200-201				100
			300-400				
			201.00m/12 days				Total Length (m) Drilling Period
			201.00 m/12 days				Total Length (m) Working Days
			201.00 m/12 days				Total Length (m) Net Drilling Days
			243 men/201.00m				Net Drilling Workers Total Length (m)
			100 %				1.21 men/m
			9.09				16.75 m/Day
			10.80				16.75 m/Day
			0				16.75 m/Day
Grand Total	352°		100 %				
Pipe size & Inserted Length (m)	Inserted Length x 100% Drilling Length	Recovery of Casing Pipe(%)	Remarks				
NW CP 18.00	8.96	100					
BW CP 49.70	24.73	100					

付表7 使用機器, 消耗品及び量, ダイヤモンド使用状況表

A. Model "TOM-3"

(1)

Article	Model	Specifications	Quantity
Drilling Machine	Model "TOM-3" (Tone Boring Co.)	Capacity: BQ-WL 790 m	1 set
		Dimensions: Height 1,550 mm	
		Length 2,410 mm	
		Width 960 mm	
		Weight (without Power Unit): 1,350 kg	
	Swivel Head	Spindle Speed: 120, 250, 600/R 120 r.p.m.	
	Hoist	Type: Planetary Gear Type (Power Up) Capacity: 2,500 kg	
	Oil Pump	Type: Hydraulic Capacity: 20/min Pressure: Max. 70 kg/cm ²	
Motor	Model "F3L"	Diesel Engine: 3 Cycle Air-cool Type Revolution: 1,500 ~ 2,000 r.p.m. Related Power: 35 P.S.	1 set
Drilling Pump	Model "NAS-3T" (Tone Boring Co.)	Weight (without Power Unit): 480 kg Piston Diameter: 75 mm Stroke: 50 mm Max. Capacity: 130 ℓ/min Max. Pressure: 32 kg/cm ²	1 set
Water Supply Pump	Model "NAS-3B" (Tone Boring Co.)	Diesel Engine (Yanmar Co.) Revolution: 2,200 r.p.m. Related Power: 13 P.S.	1 set
Mixer	Model "MCE-100A" (Tone Boring Co.)	100ℓ	1 set
Generator	Model "YSG-1300B" (Yanmar Co.)	1.1 KVA	1 set
Drill Rod		NQ - 3.0 m	36 Pcs
		BQ - 3.0 m	126 Pcs
Casing Pipe		NW - 1.5 m	6 Pcs
		NW - 0.5 m	3 Pcs
		BW - 3.0 m	45 Pcs
Wireline Hoist		Attached to Drilling Machine	1 set
Rod Safety Clamps		RH Type	1 set
Water Swivel		EH Type	1 set
Hoisting Swivel		L Type	1 set

B. Consumed Materials

(2)

Article	Specification	Unit	Quantity					Total
			DJM-1	DJM-2	DJM-3	DJM-4	DJM-5	
Gasoline	Generator	L	120	160	350	275	630	1,535
Light Oil	Engine	L	1,200	2,620	5,550	1,535	5,290	16,195
Mobil Oil	Engine	L	180	210	360	150	450	1,350
Mission Oil	Gear	L	20	15	15	25	20	95
Turbine Oil	Oil Pressure	L	40	20	35	40	45	180
Grease		kg	5	7	10	12	16	50
Cutting Oil		ℓ	160	70	120	10	80	440
Metal Crown		pcs						4
Single Core Tube	99 m/m x 0.5 m	set						2
Double Core Tube	NQ-WL	set						2
do	BQ-WL	set						2
Core Tube Head	99	pcs						1
Casing Head	HQ	pcs						1
do	NQ	pcs						1
Casing Metal Shoe	HQ	pcs						1
do	NQ	pcs						1
Cement		pack	5	3	2	4	2	16
Rag		kg						70
Core Box		pcs	33	21	34	21	24	133
Board	30 m/m	m ³						0.5
Wire	# 10	kg						90
do	# 12	kg						30
Nail	75 m/m	kg						30
do	38 m/m	kg						30
Wire Rope	12.5 m/m x 50 m	vol						1
Vinyl Rope	16 m/m x 30 m	vol						1
V-Belt	Engine	set						5
do	Pump	set						2
Wire Rope	6 m/m x 300 m	vol						1
Core-Lifter	NQ-WL	pcs						10
do	BQ-WL	pcs						10
Core-Lifter Case	NQ-WL	pcs						5
do	BQ-WL	pcs						5
WL-Accessory	NQ-WL	set						1
	BQ-WL	set						1
Working Dress	M, L	set						3
Working Gloves		pair						120
Working Shoes	25 ~ 27 cm	pair						3
Pressure Gauge	kg/cm ²	pcs						2
Bentnite		kg						7,375
C.M.C.		kg						55
Libonite		kg						1,610

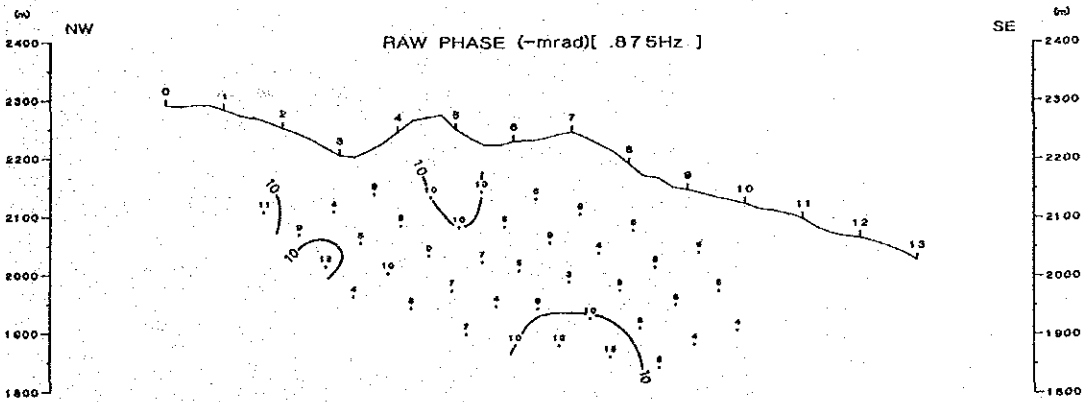
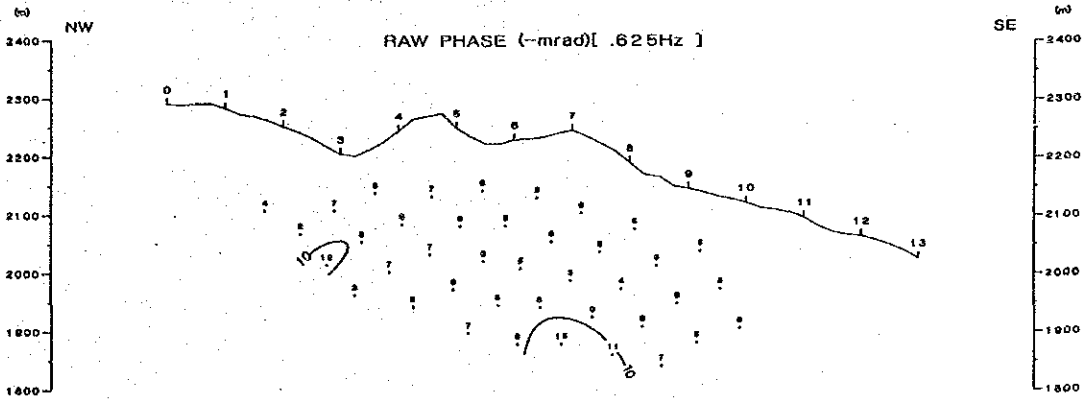
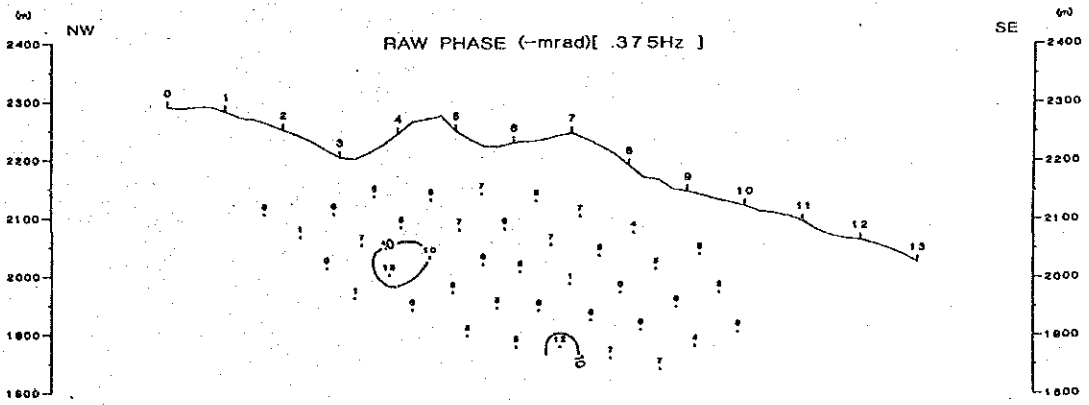
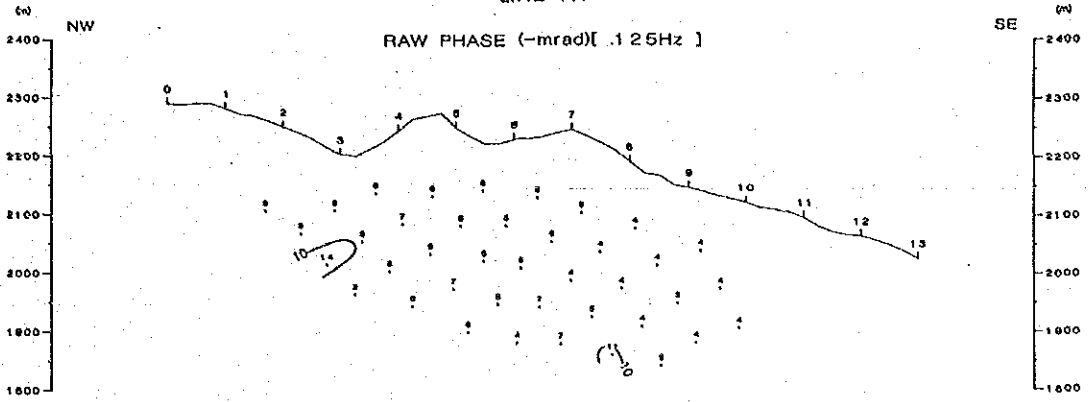
C. Consumed Bits (3)

101 Single	Bit Type	DJM-1		DJM-2		DJM-3		Total	
		Drilled Length	Quantity	Drilled Length	Quantity	Drilled Length	Quantity	Drilled Length	Quantity
	Bit (Metal)	3.00 m	1 pcs	15.00 m	0 pcs (used old Bit)	4.00 m	0 pcs	m	pcs
	Reamer	-	-	-	-	-	-	-	-
NQ-WL	Bit	89.10	2	75.10	2	128.20	1		
	Reamer	89.10	1	75.10	0	128.20	0		
BQ-WL	Bit	158.10	3	72.40	2	118.20	2		
	Reamer	158.10	1	72.40	0	118.20	1		

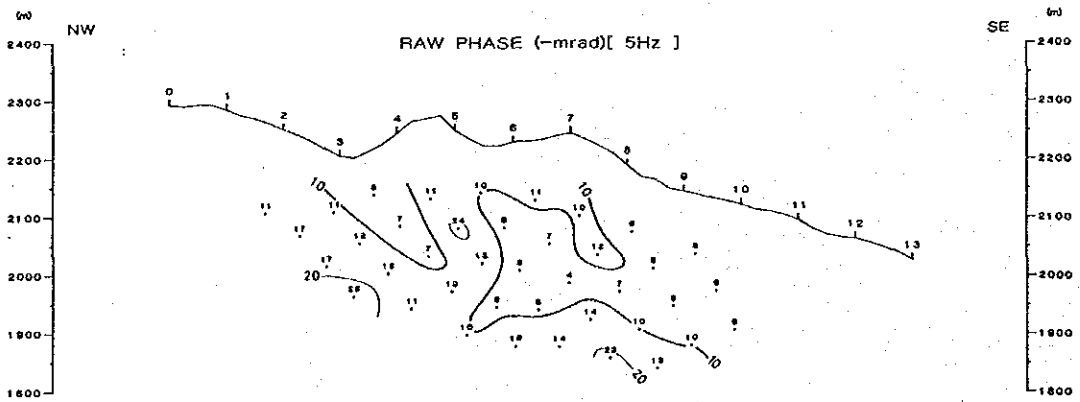
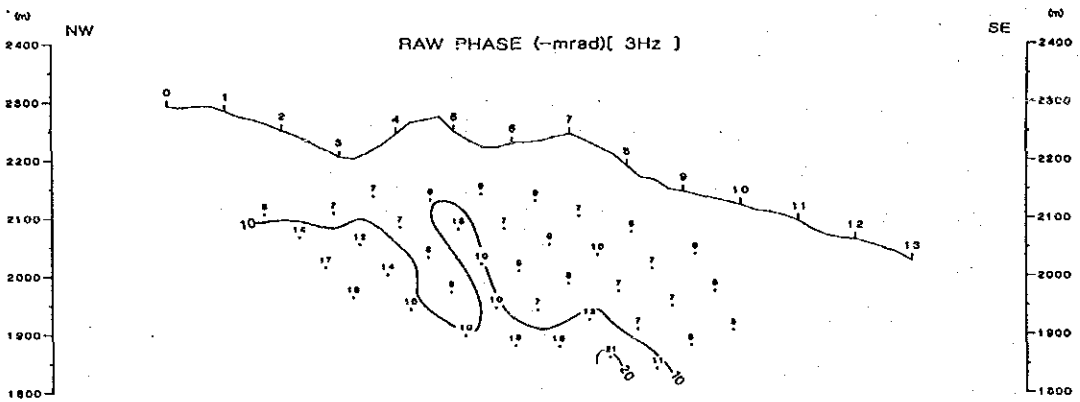
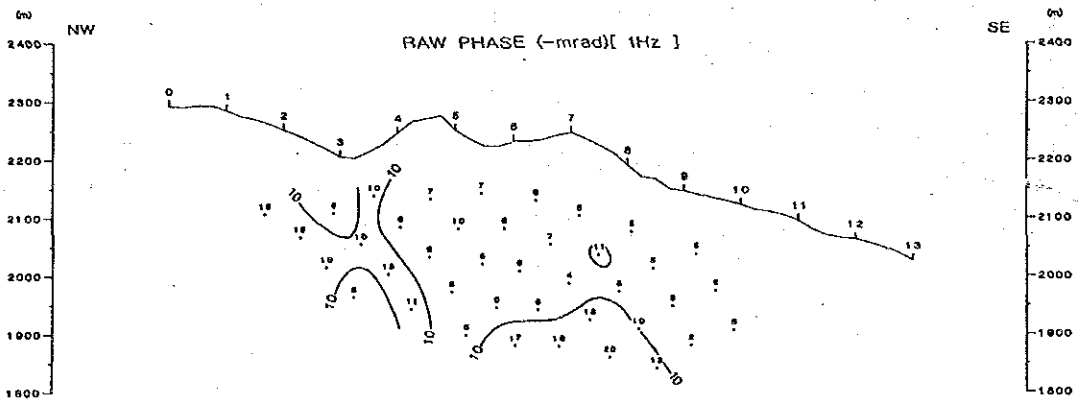
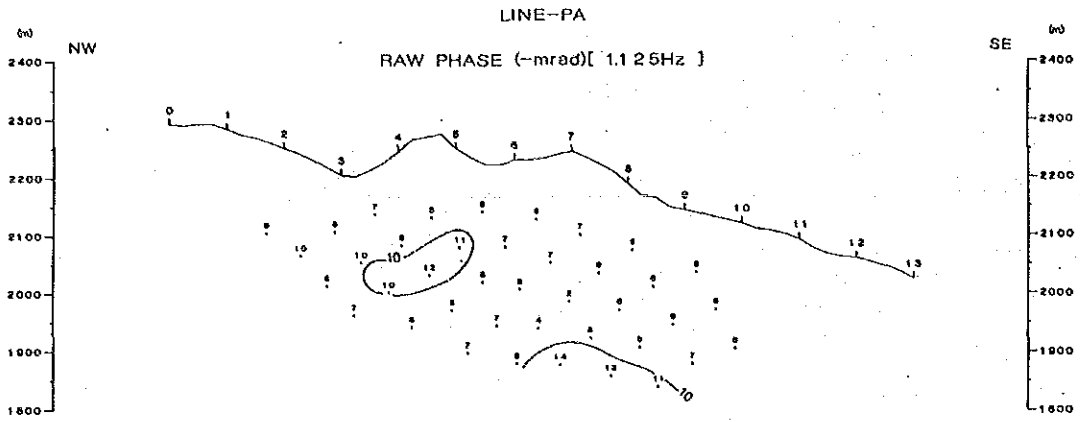
101 Single	Bit Type	DJM-5		DJM-4		DJM-3		Total	
		Drilled Length	Quantity	Drilled Length	Quantity	Drilled Length	Quantity	Drilled Length	Quantity
	Bit (Metal)	18.00 m	2 pcs	3.00 m	1 pcs	m	pcs	43.00 m	4 pcs
	Reamer	-	-	-	-	-	-	-	-
NQ-WL	Bit	31.70	1	97.20	1			421.30	7
	Reamer	31.70	1	97.20	1			421.30	3
BQ-WL	Bit	151.30	1	50.20	1			550.20	9
	Reamer	151.30	0	50.20	1			550.20	3

付図 1 周波数別位相差擬似断面図

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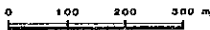
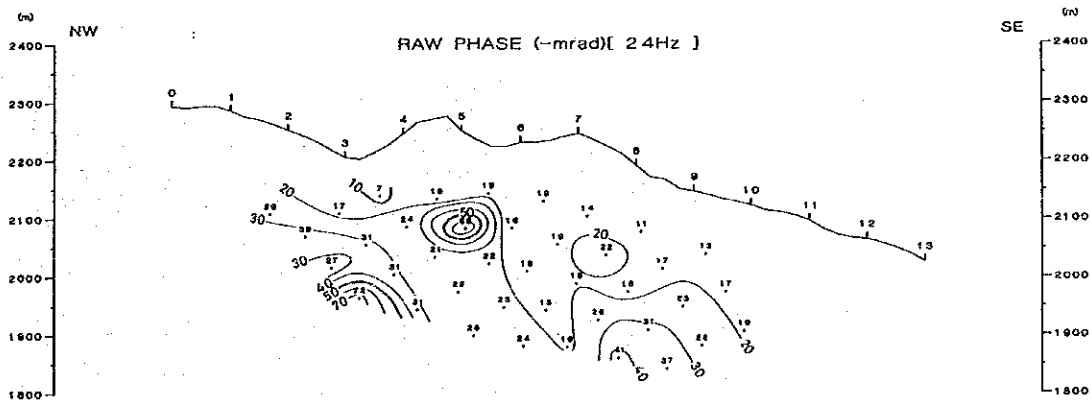
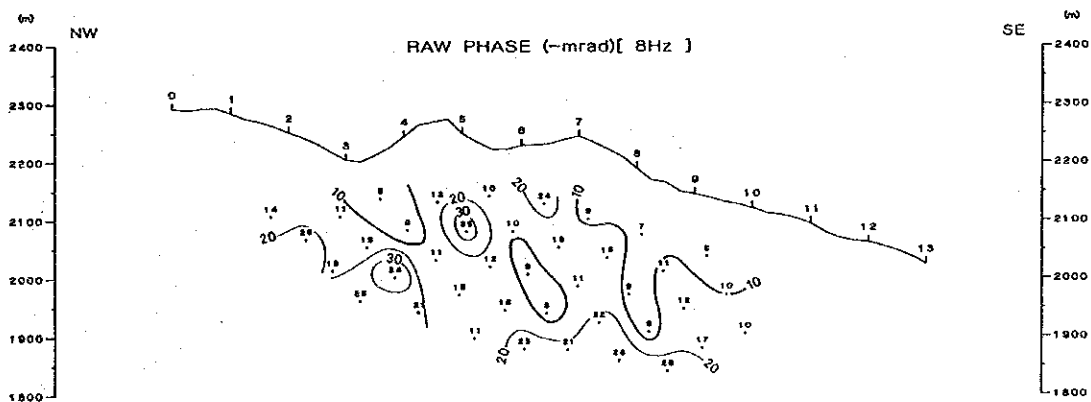
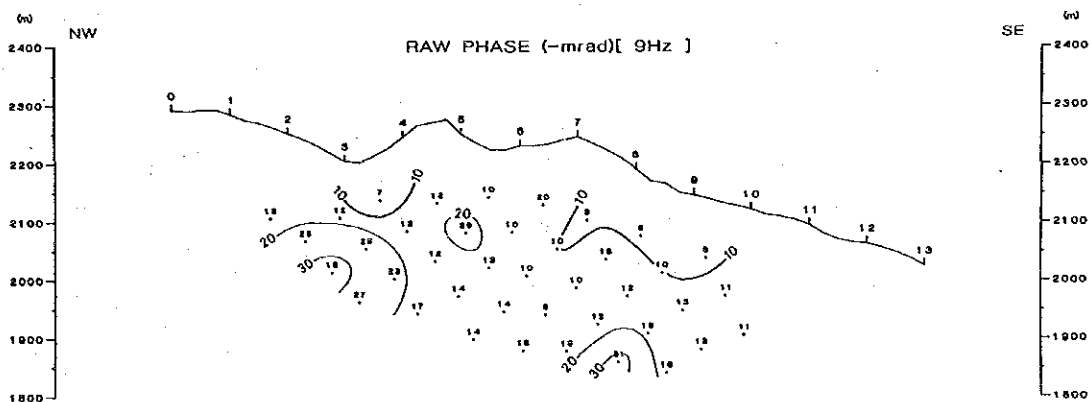
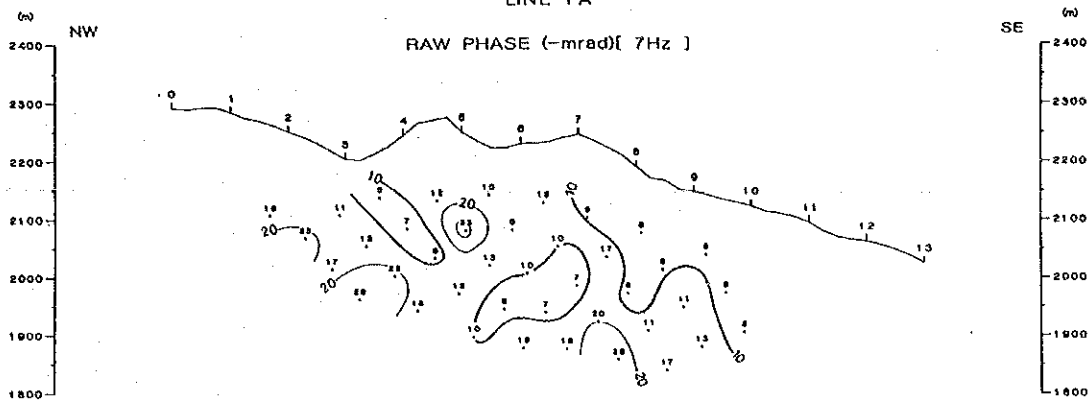


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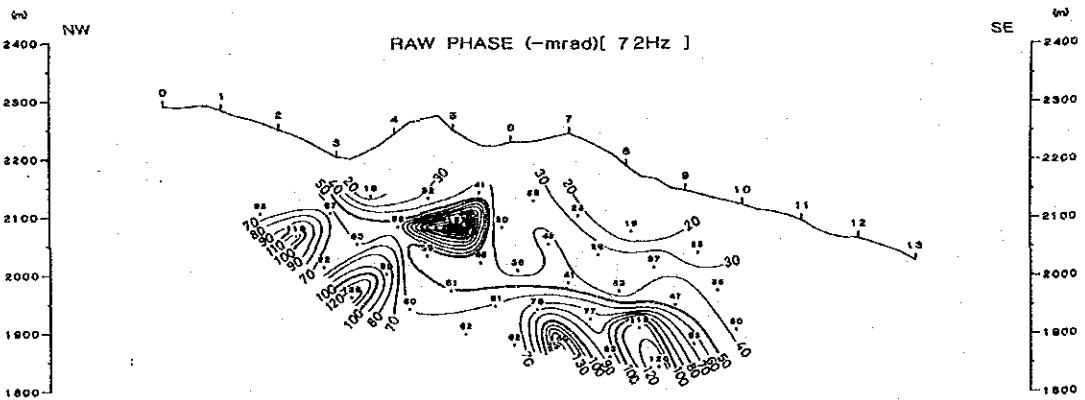
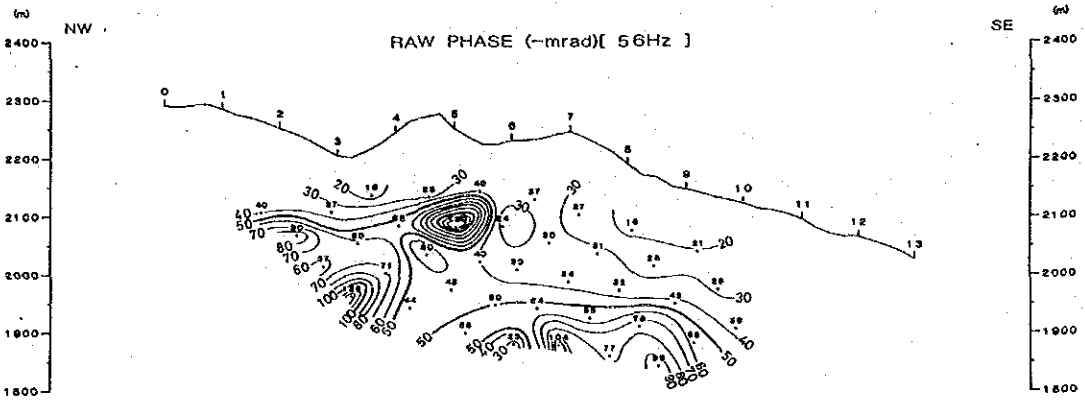
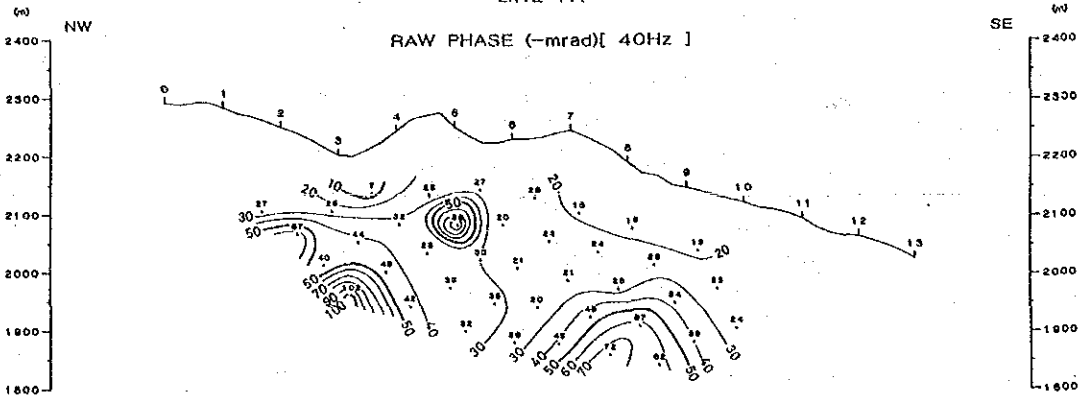


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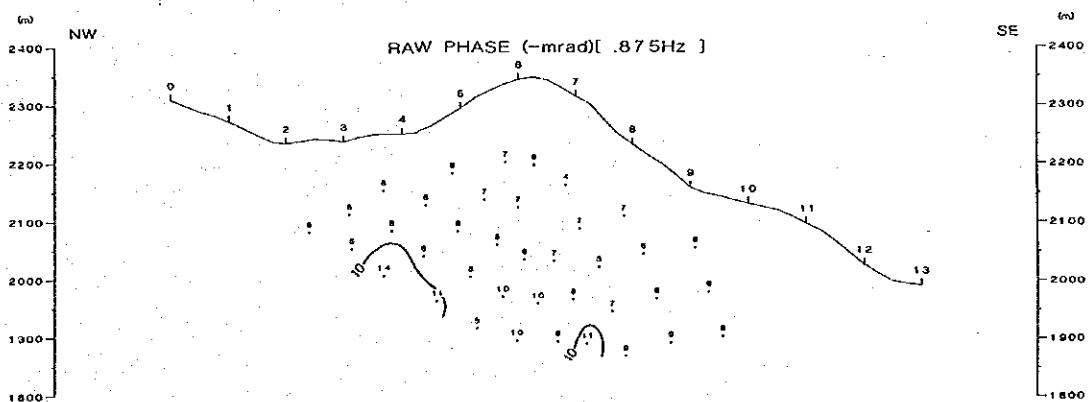
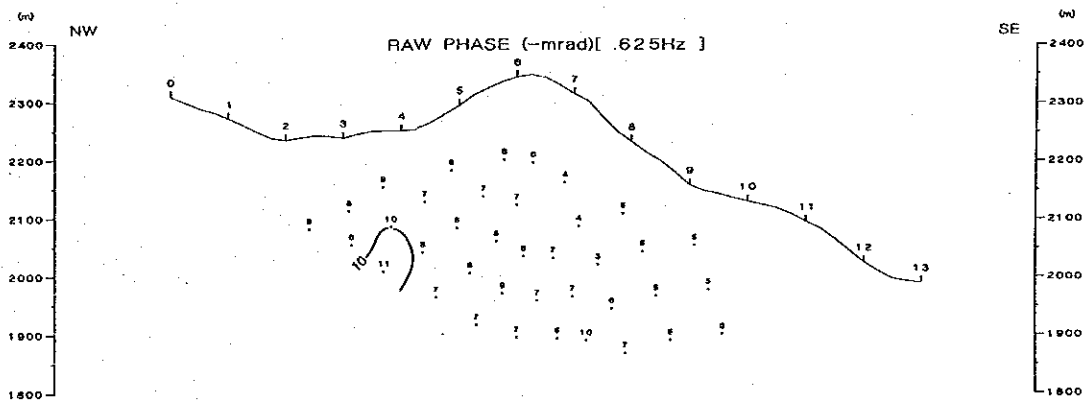
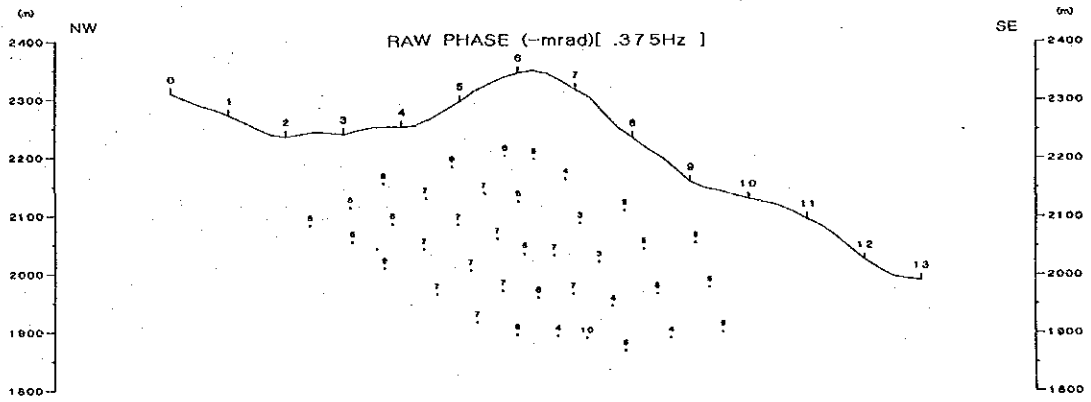
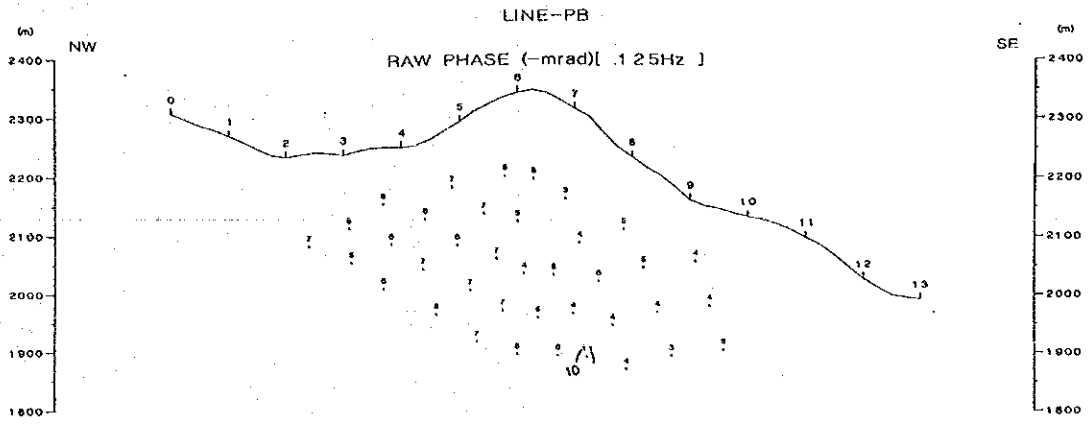
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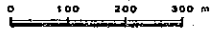
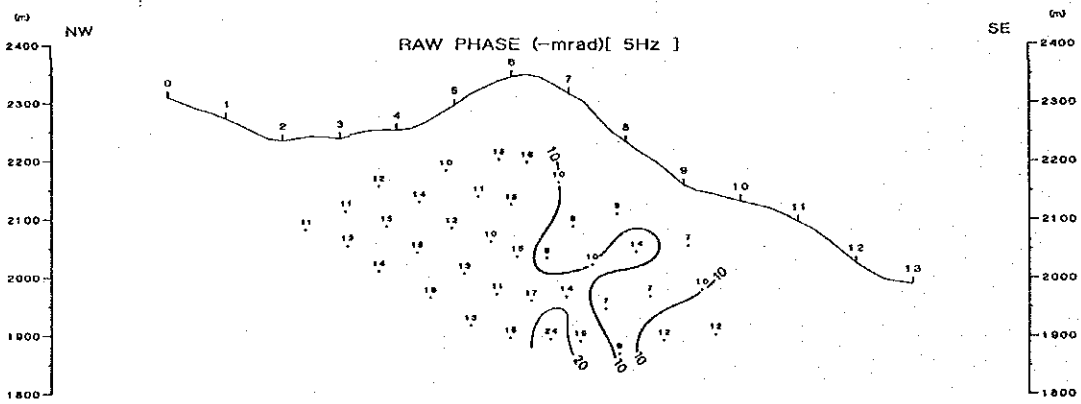
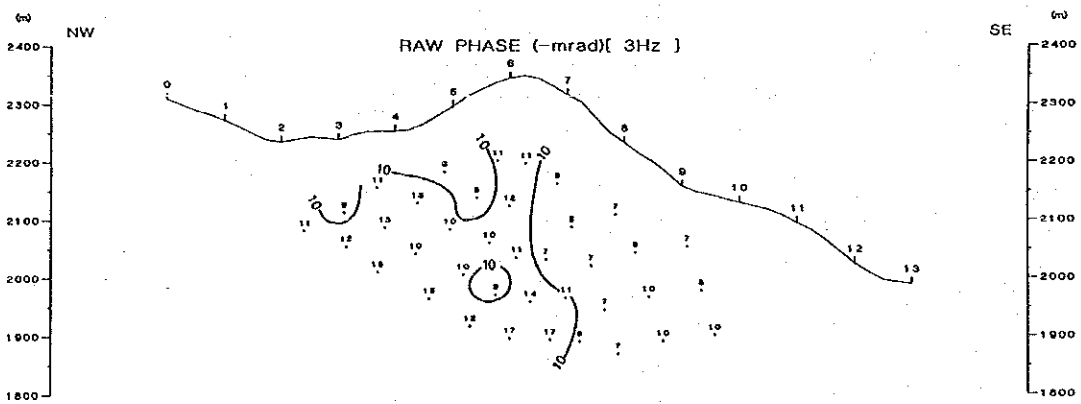
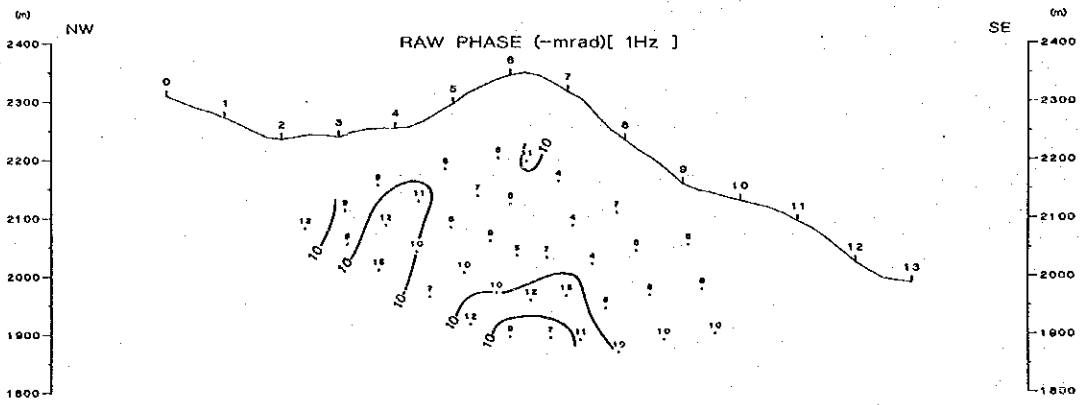
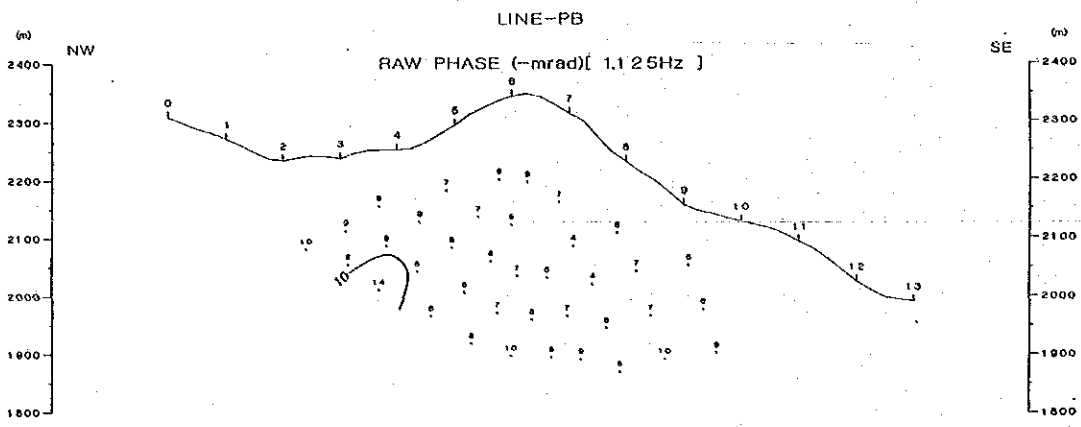


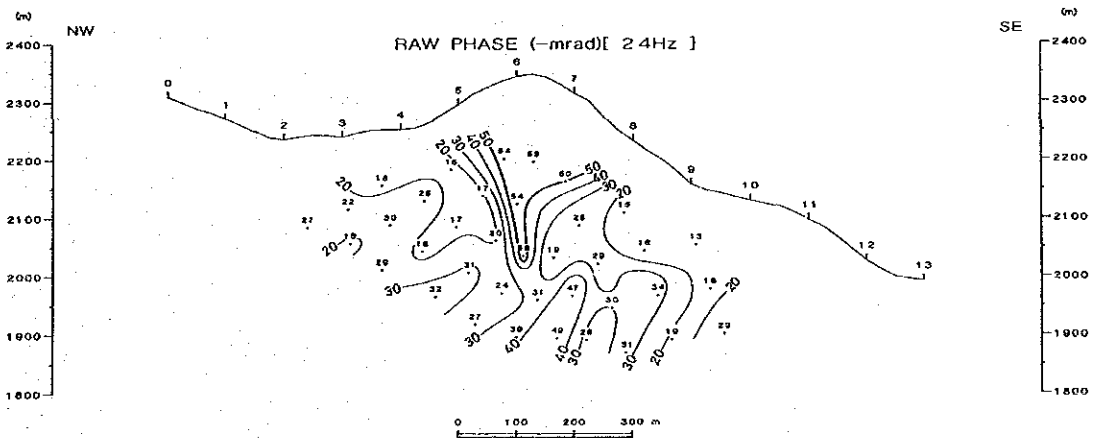
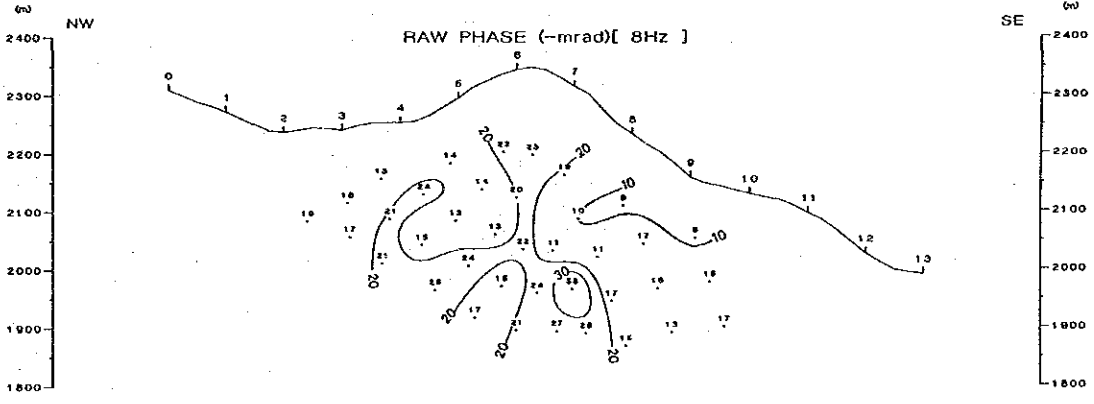
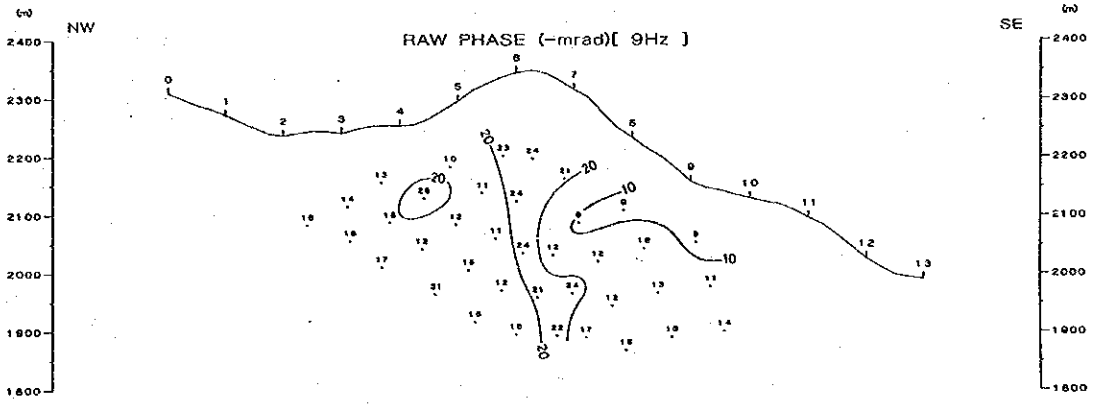
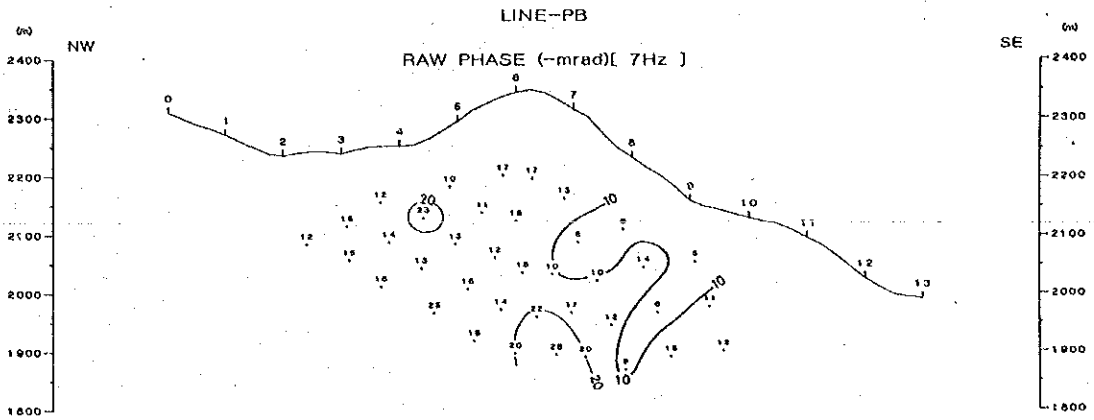
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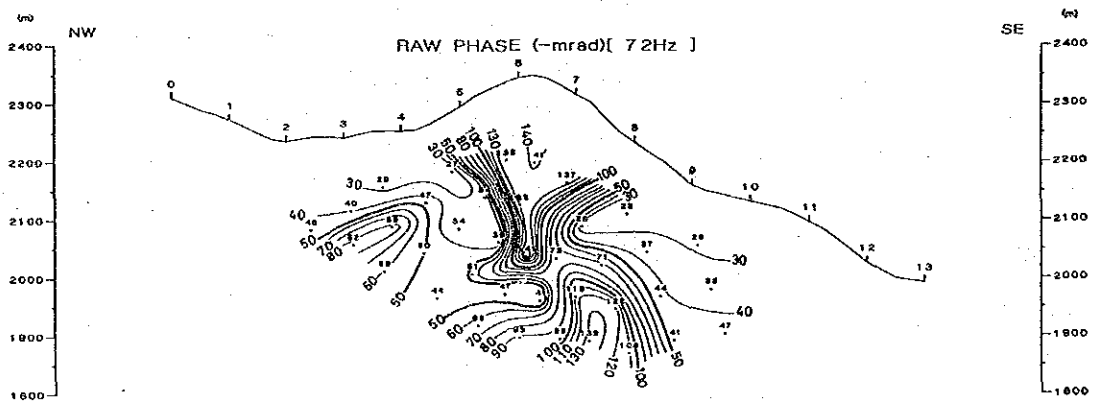
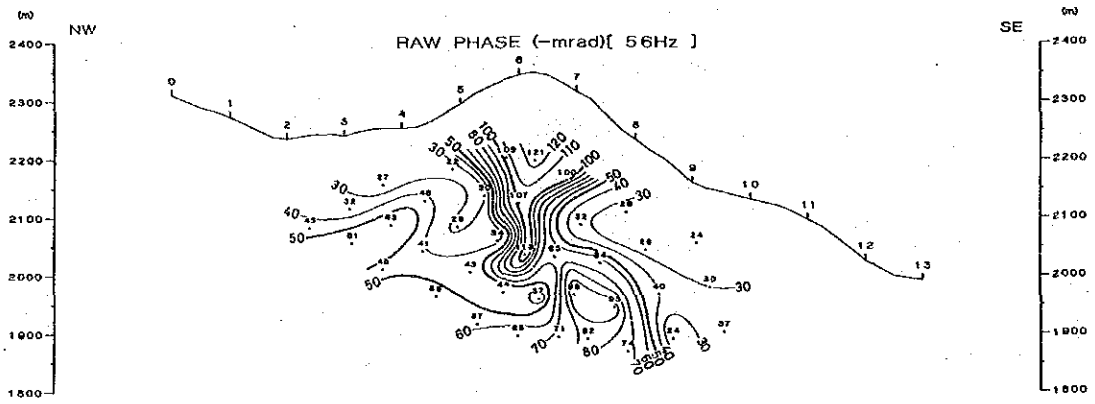
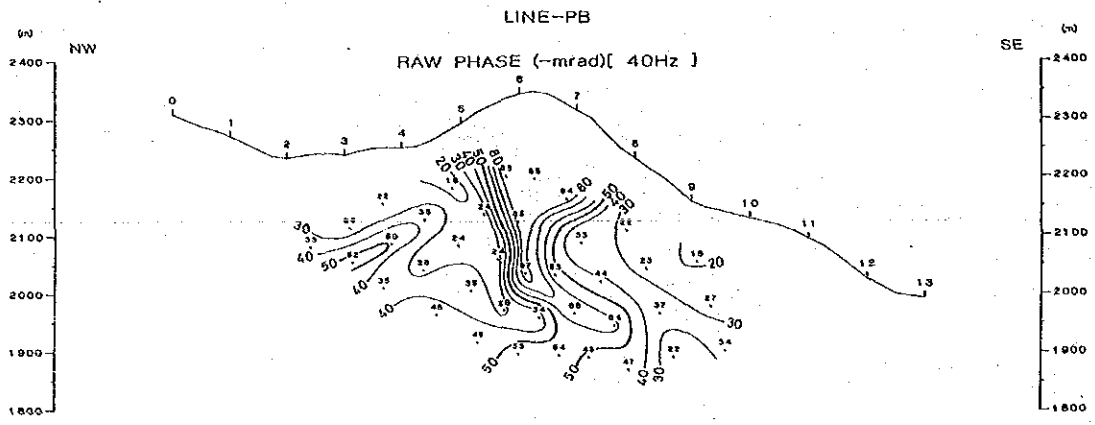


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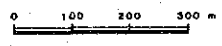
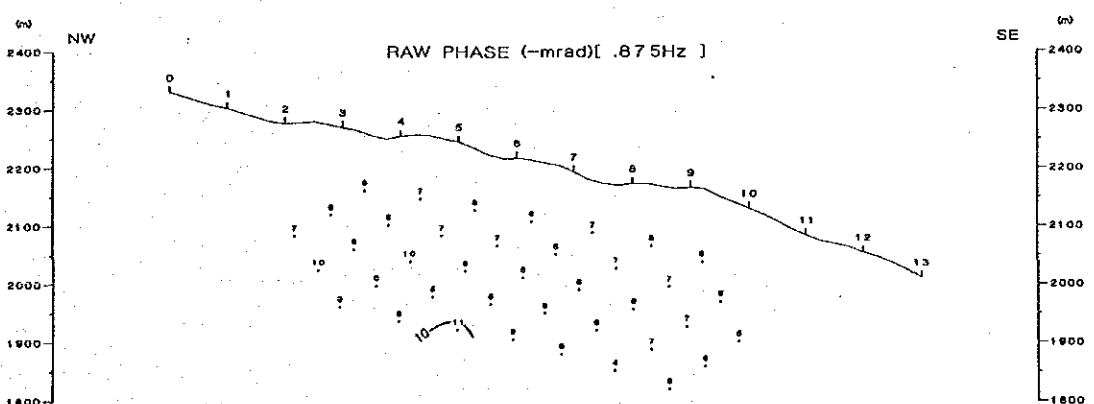
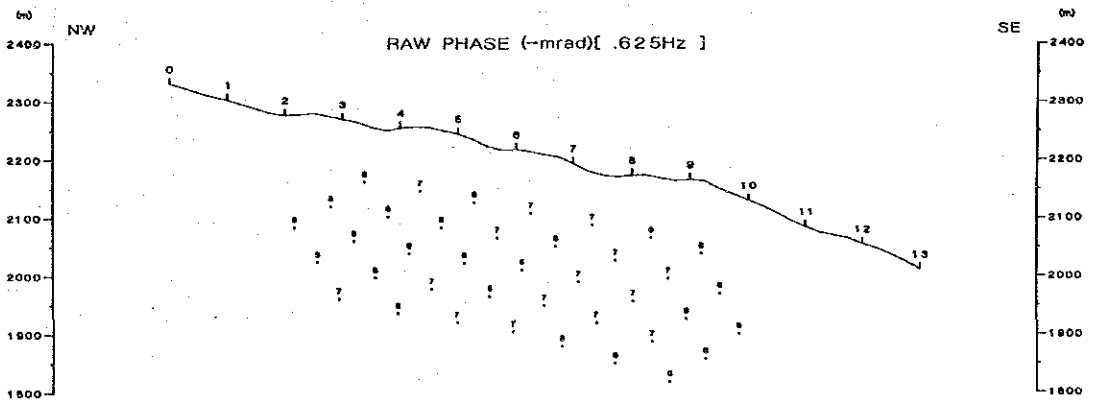
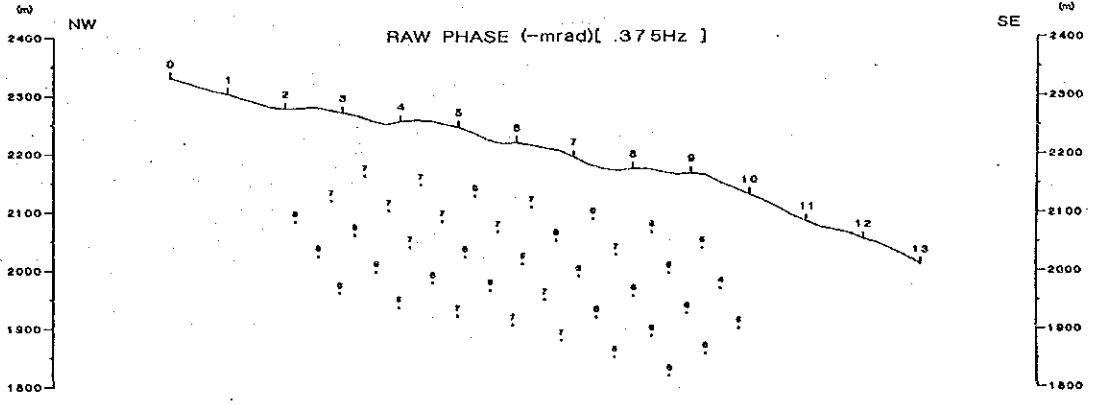
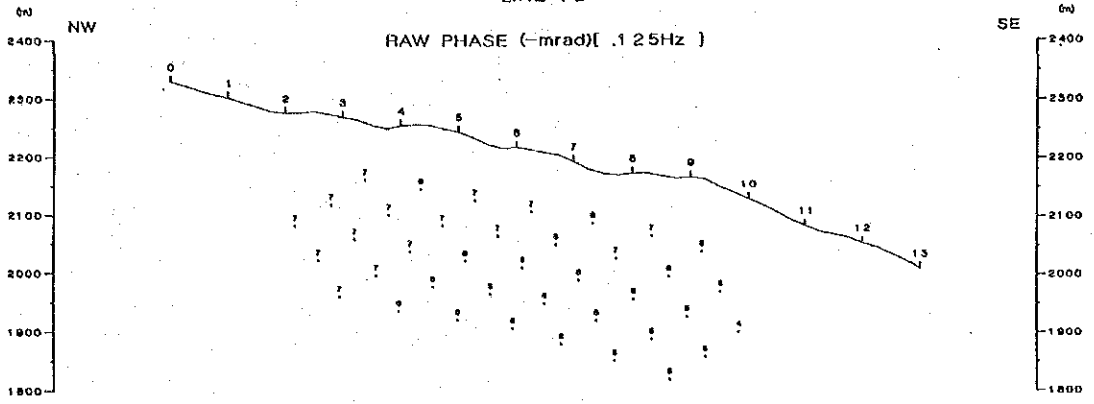




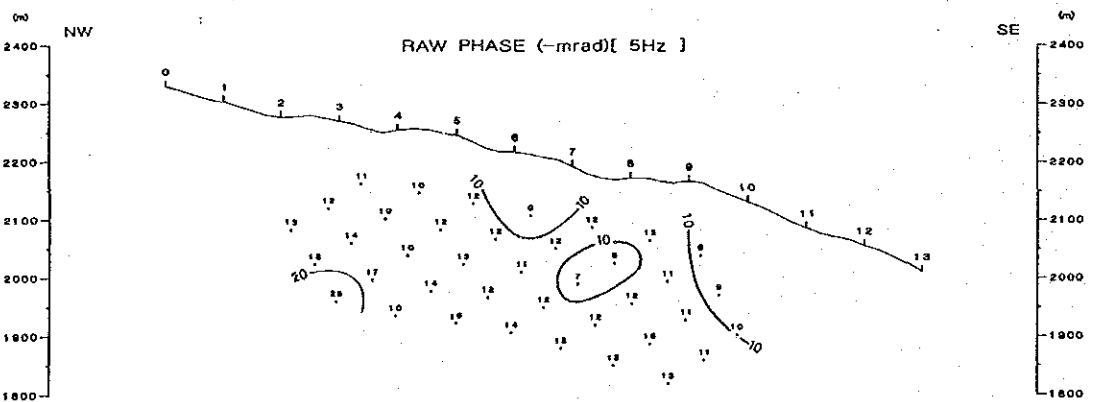
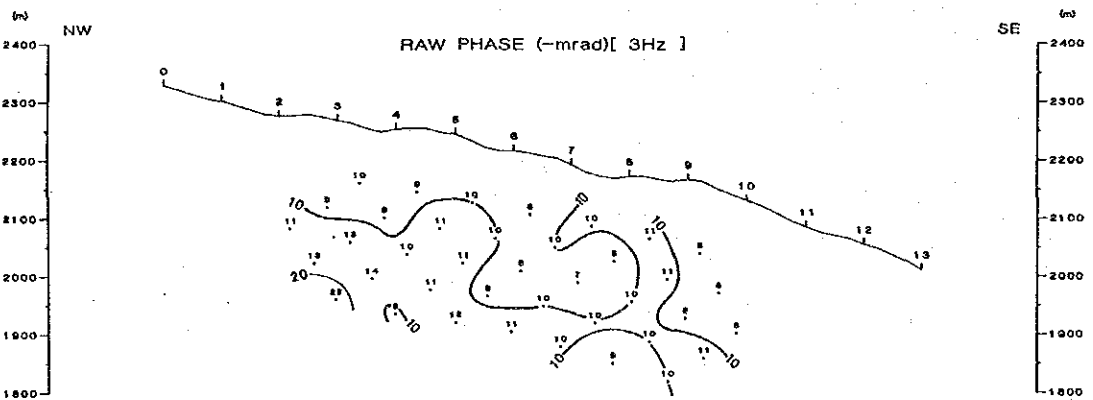
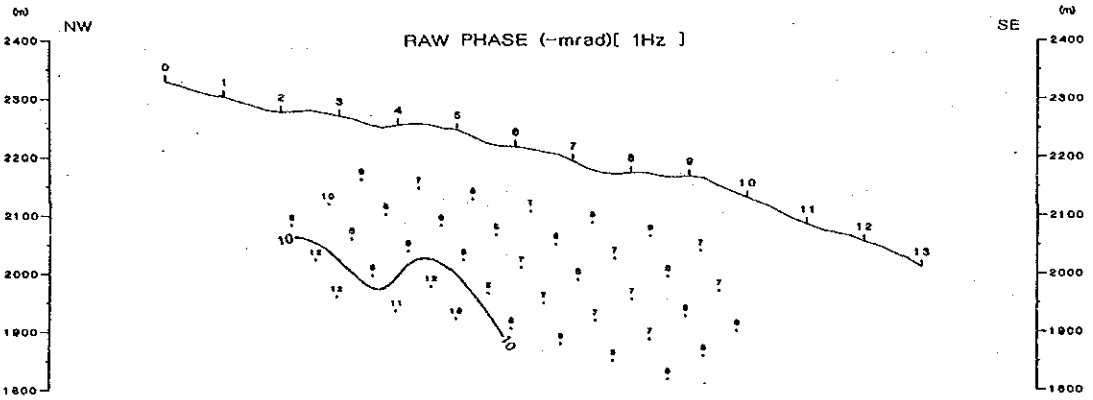
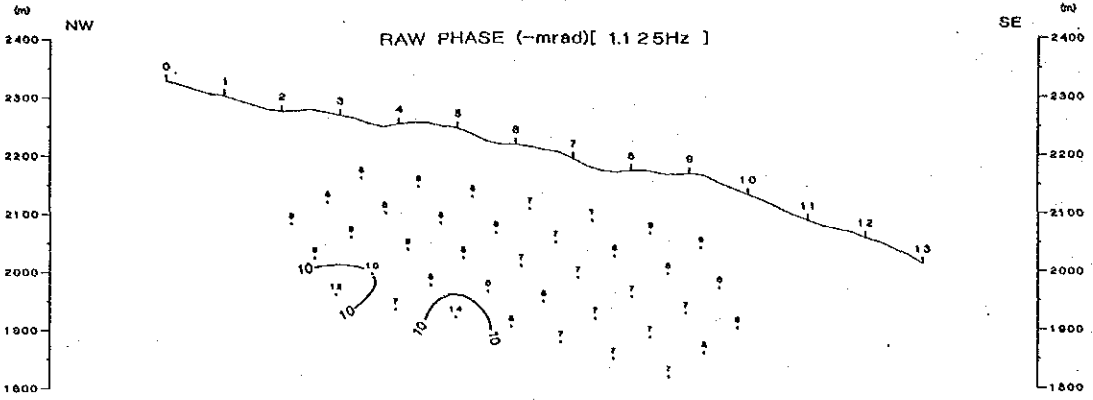




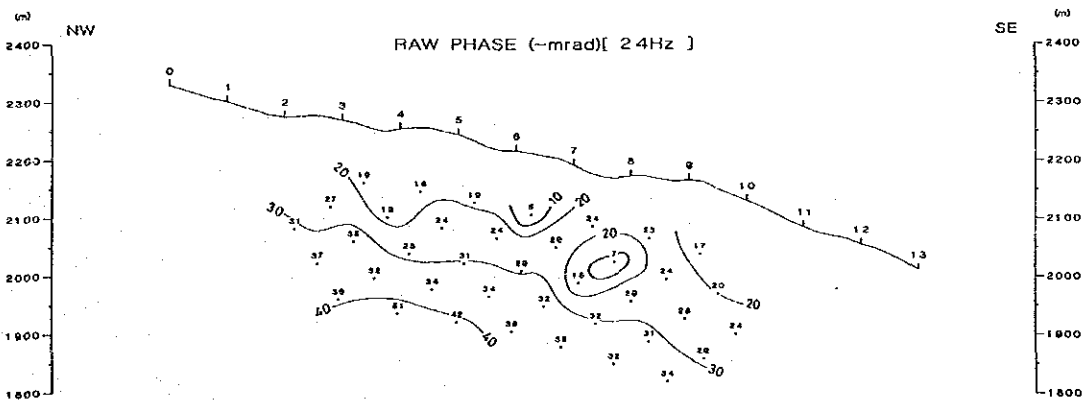
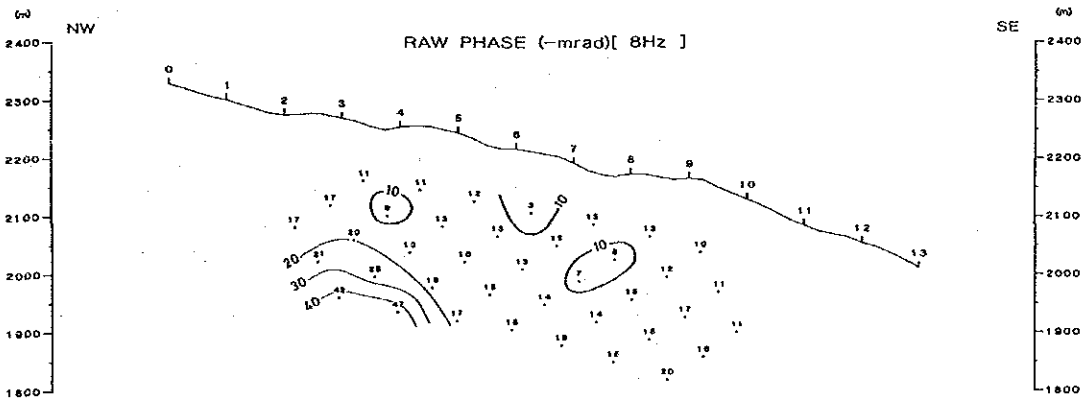
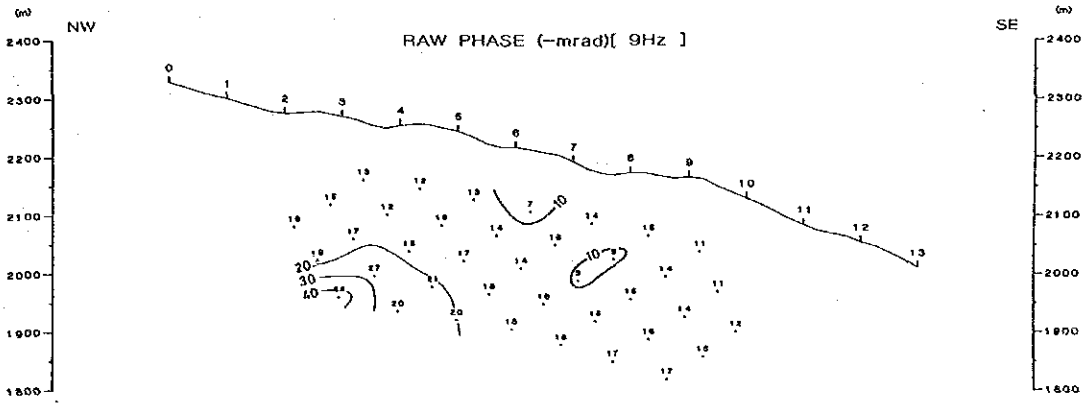
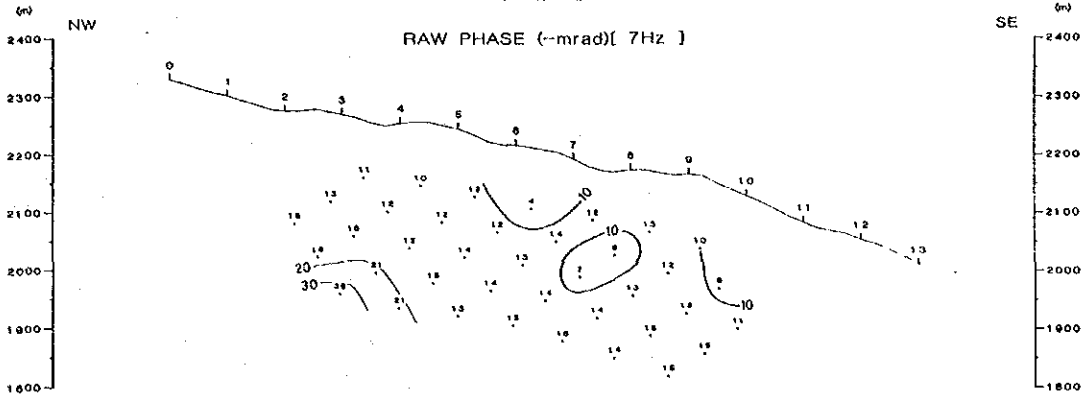
LINE-PD



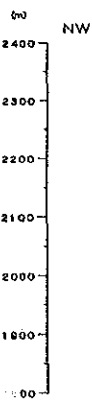
LINE-PD



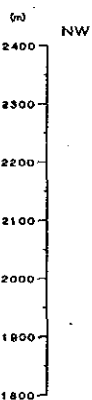
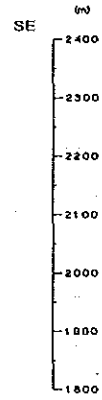
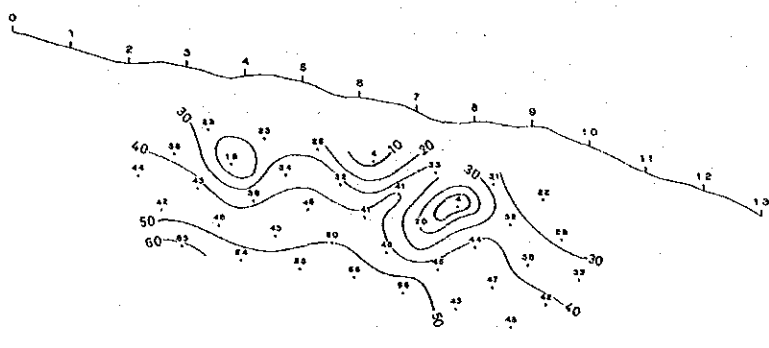
LINE-PD



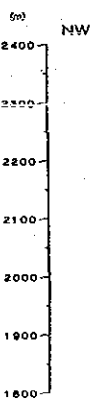
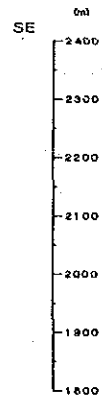
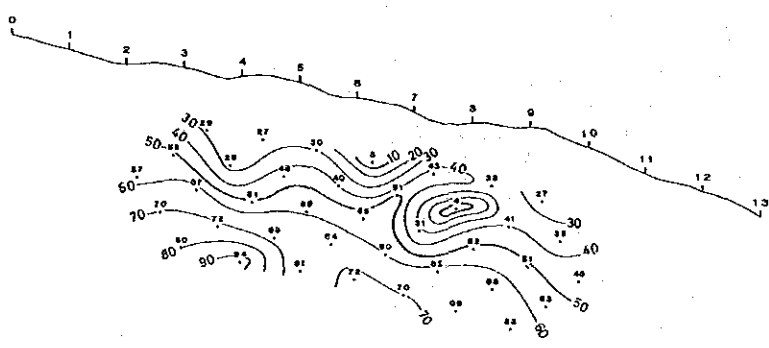
LINE--PD



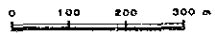
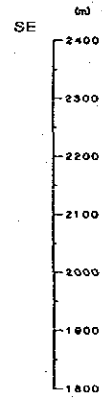
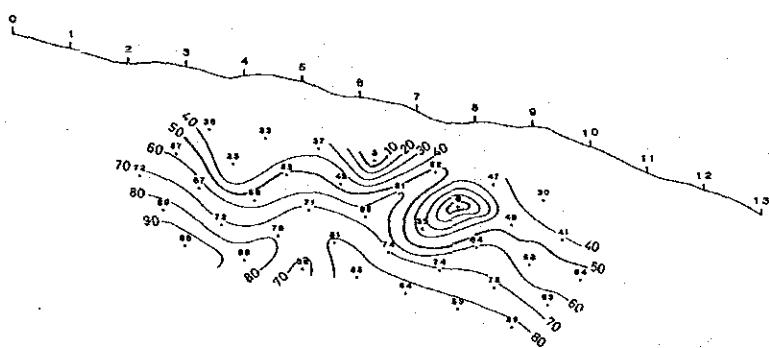
RAW PHASE (-mrad) [40Hz]



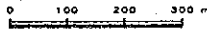
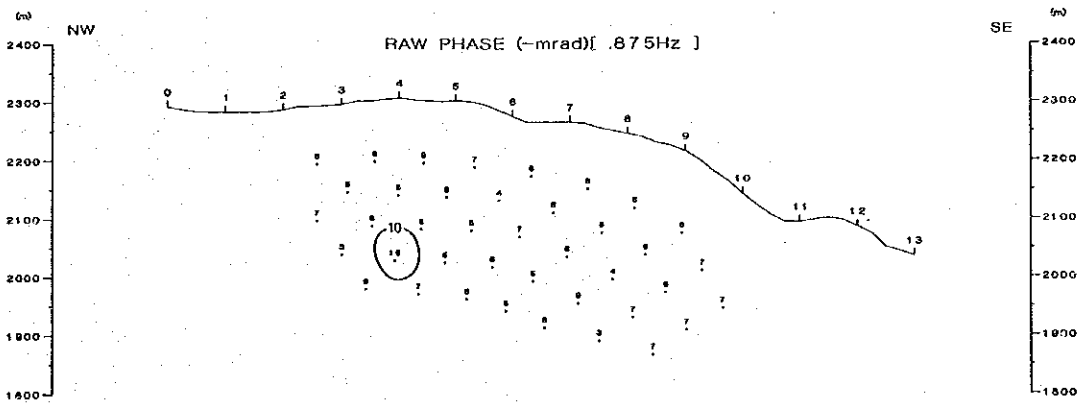
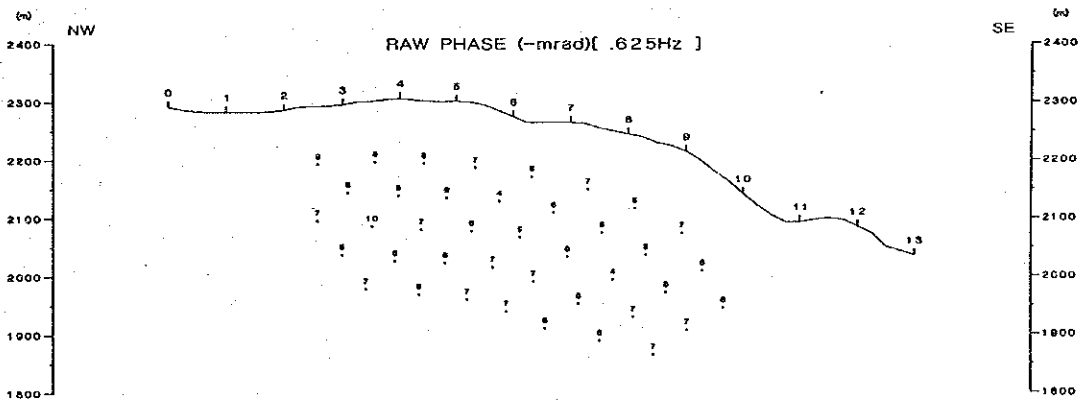
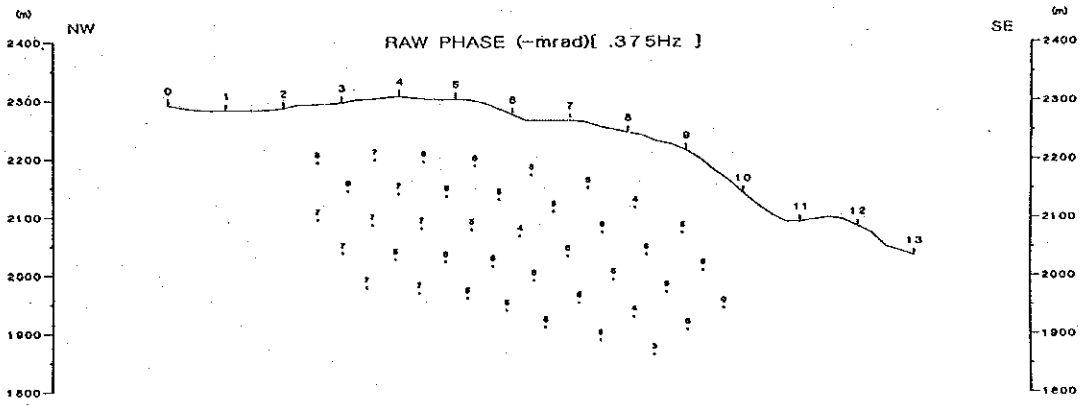
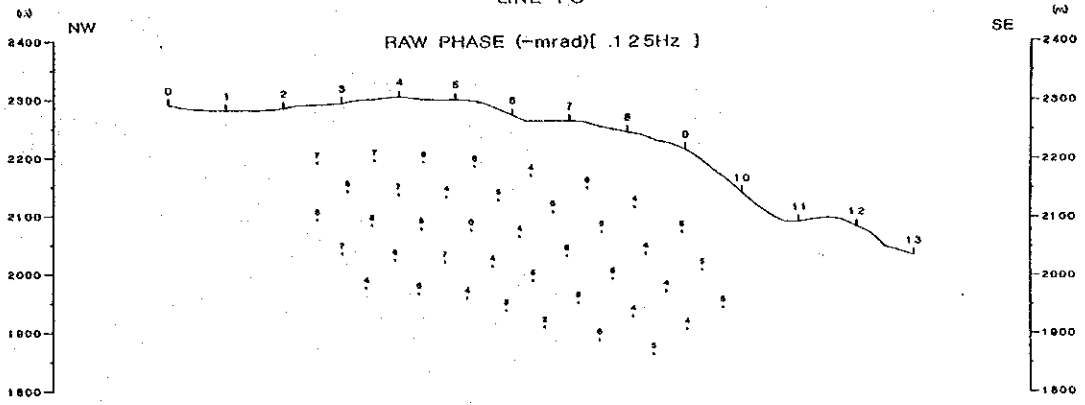
RAW PHASE (-mrad) [56Hz]



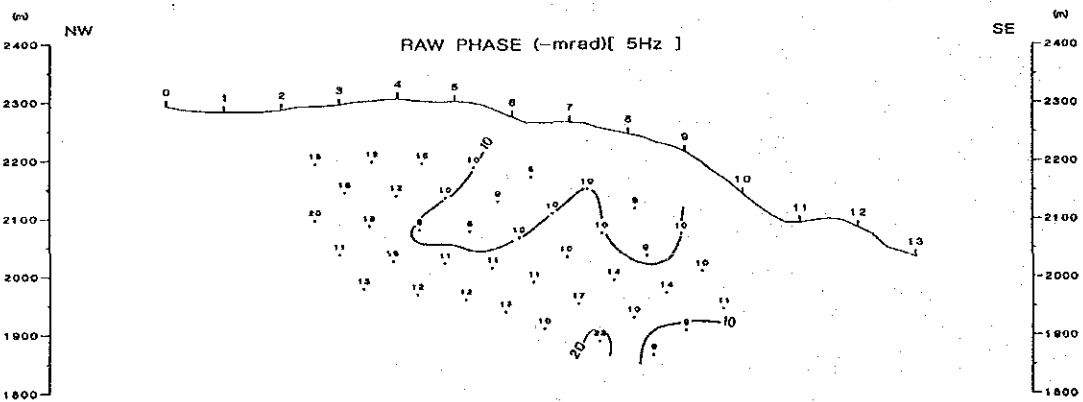
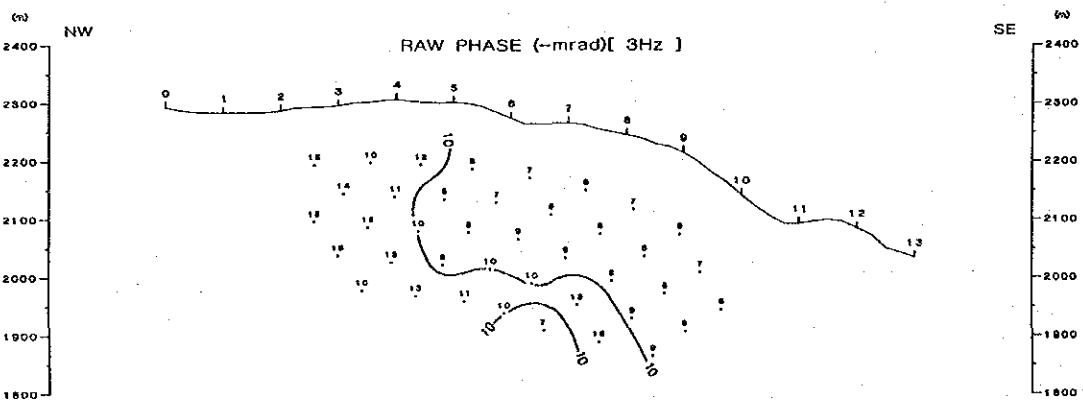
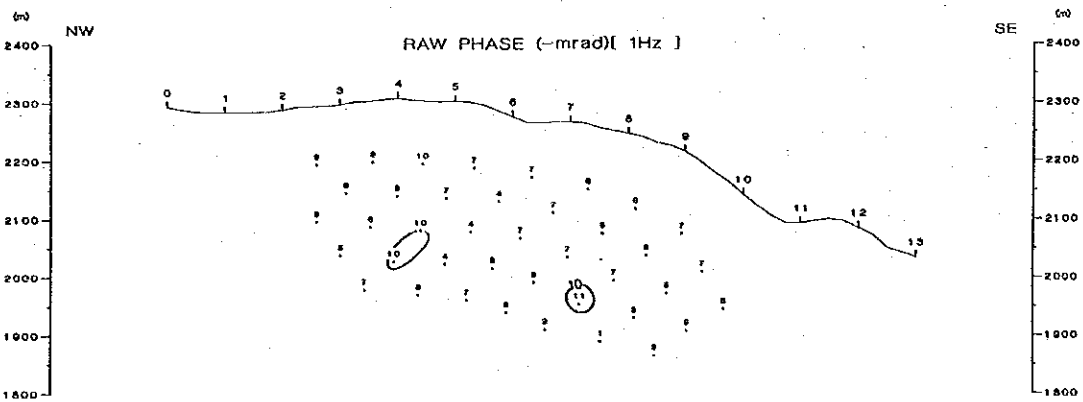
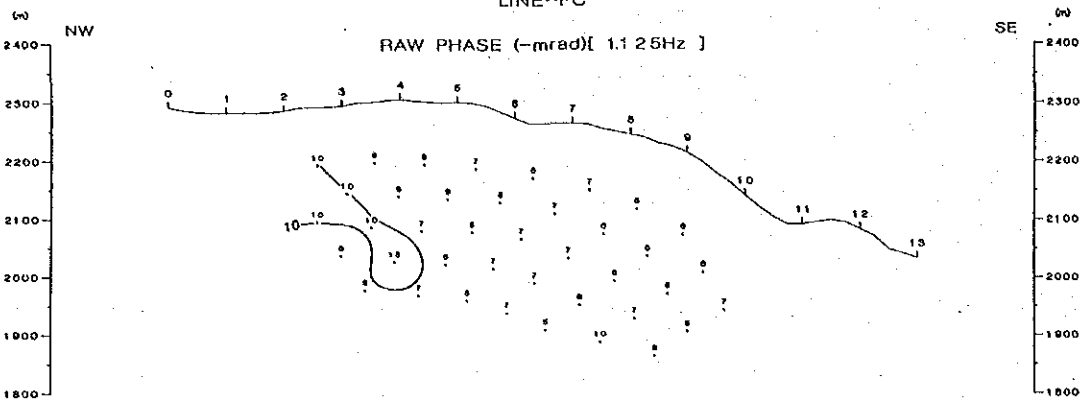
RAW PHASE (-mrad) [72Hz]

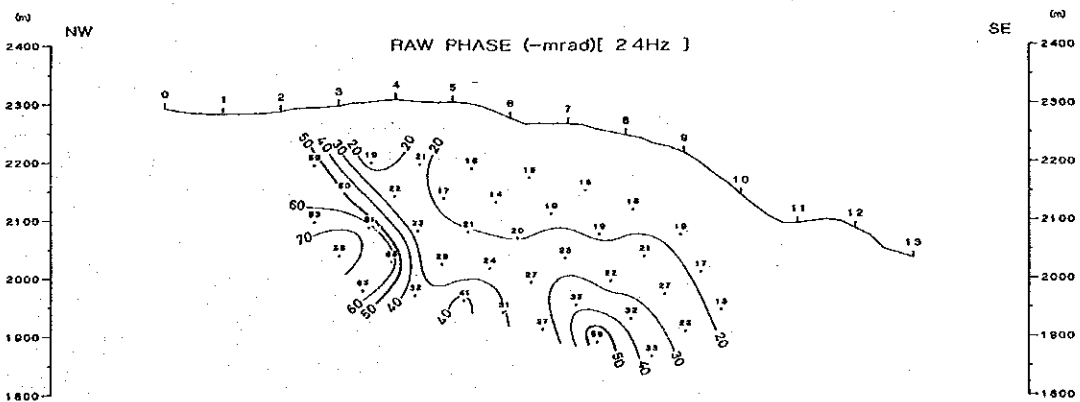
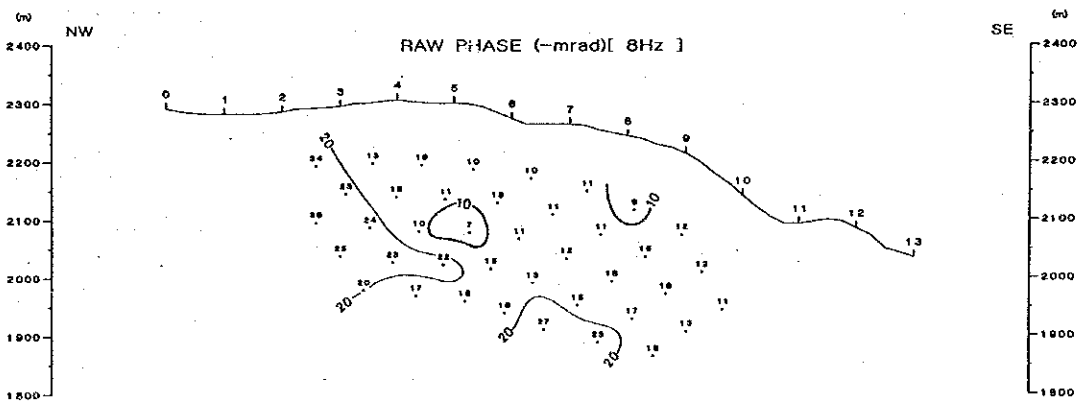
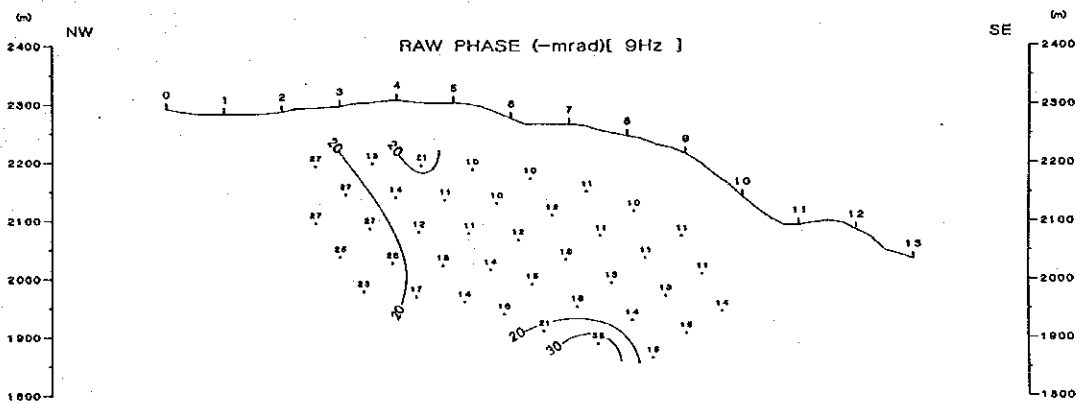
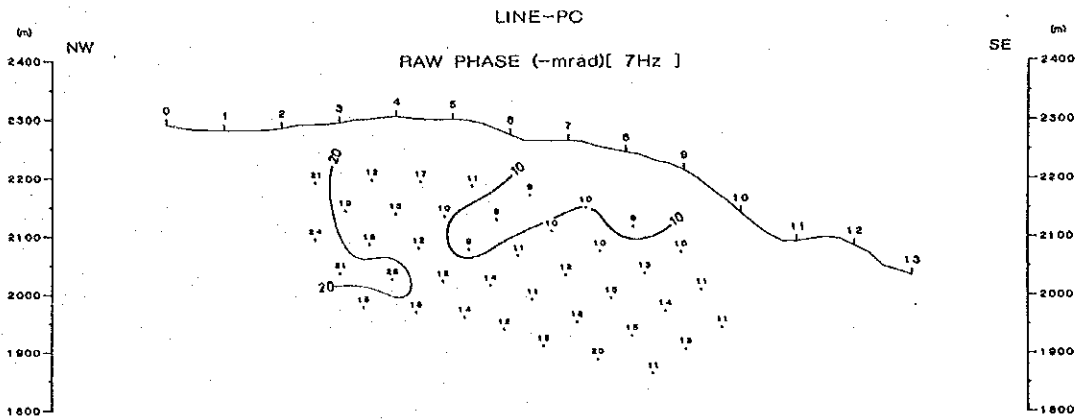


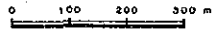
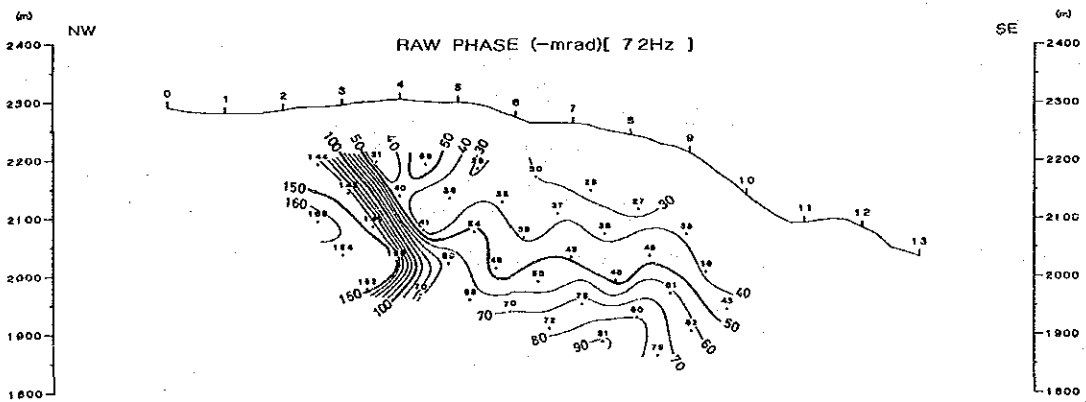
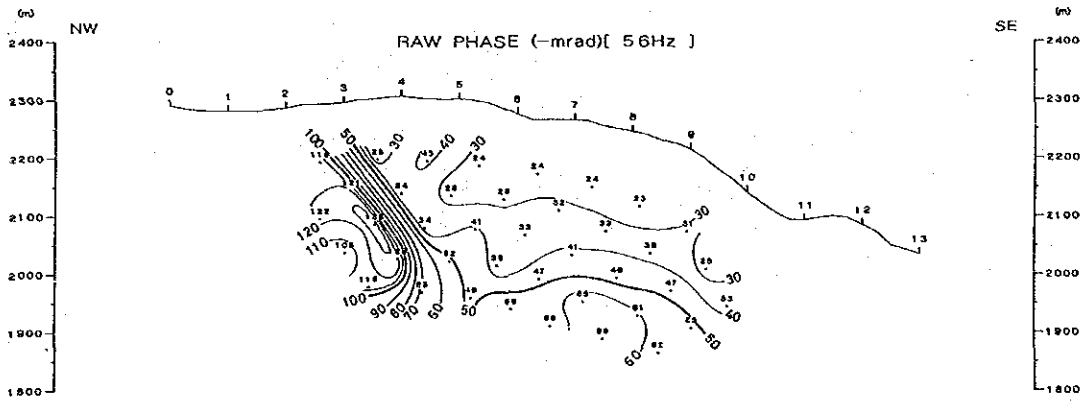
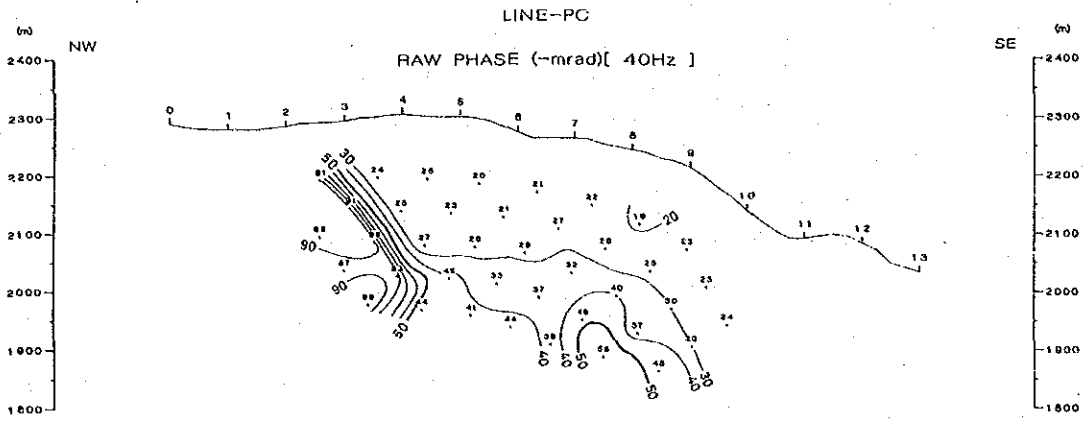
LINE-PC



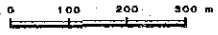
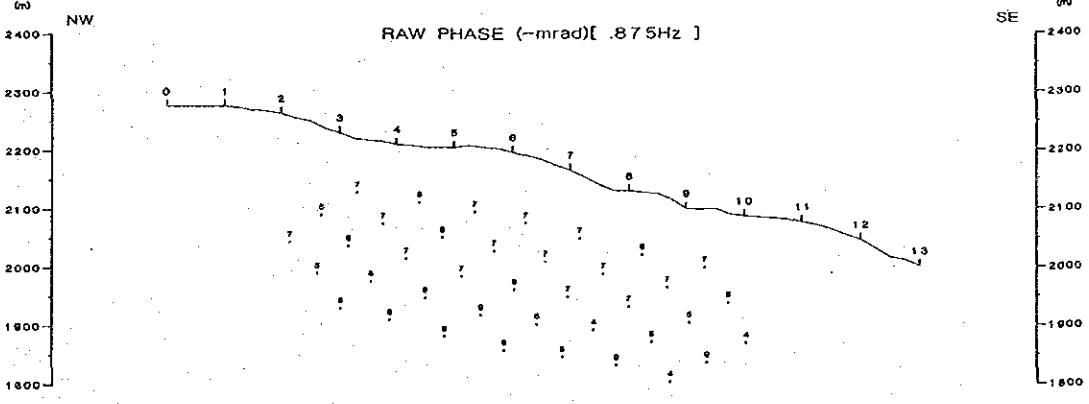
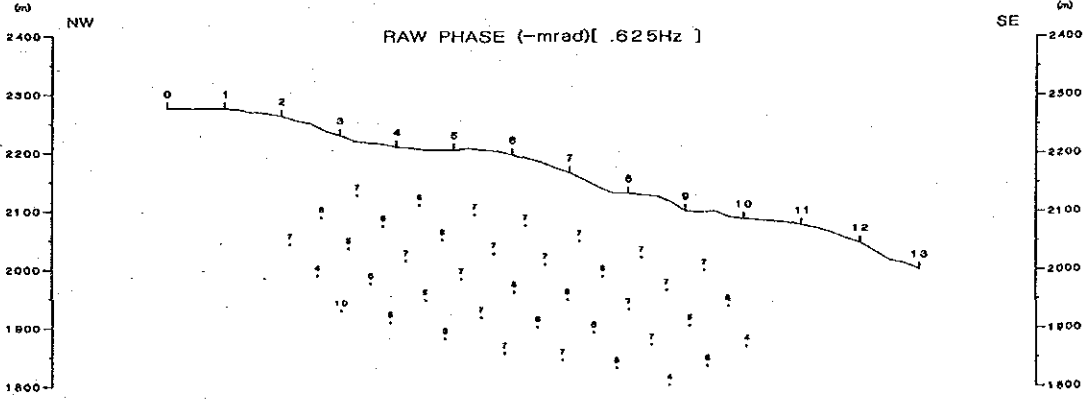
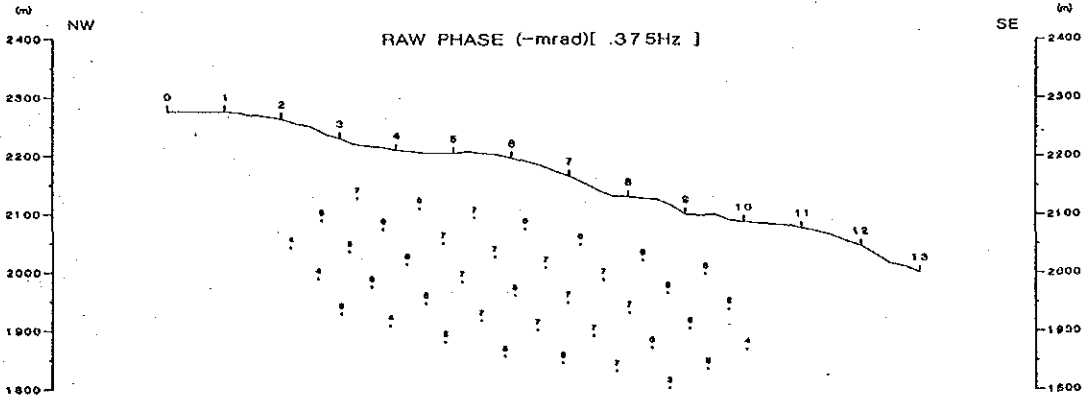
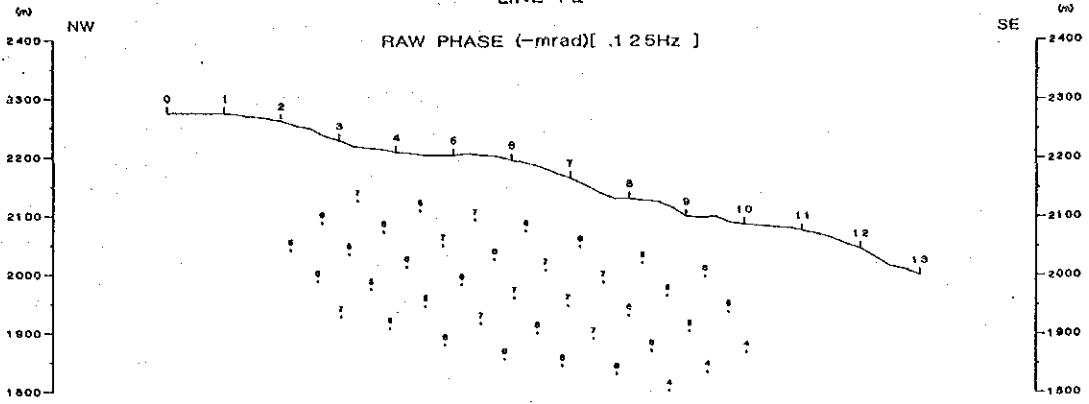
LINE-PC



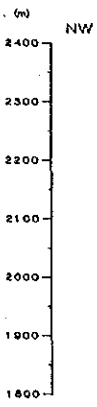




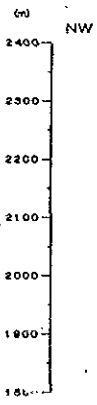
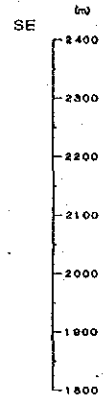
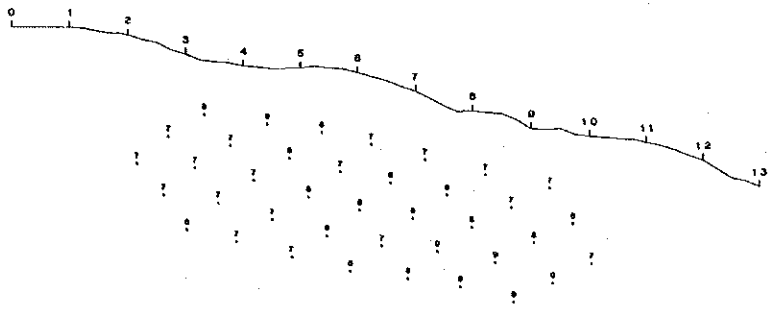
LINE-PE



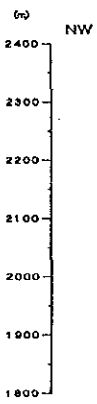
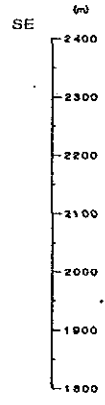
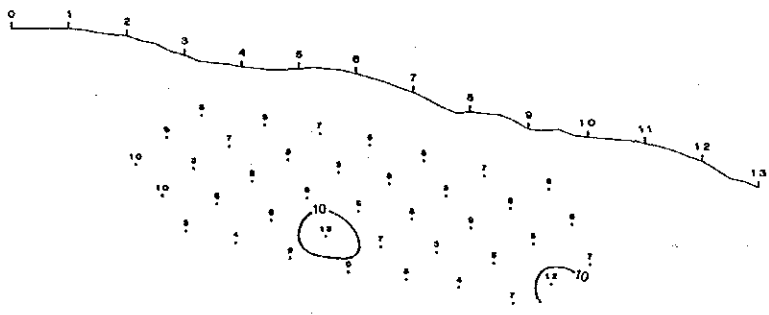
LINE-PE



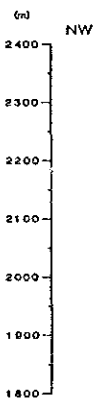
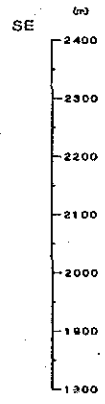
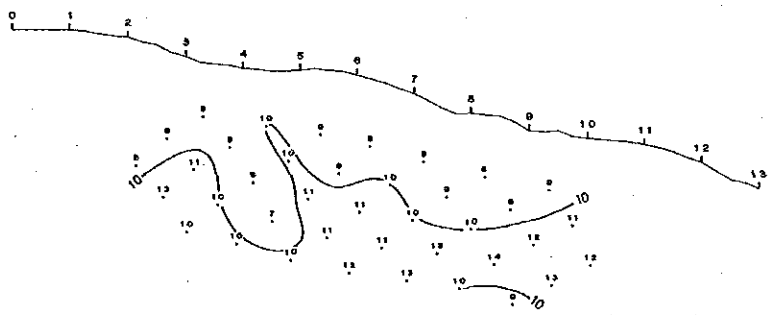
RAW PHASE (-mrad)[1.125Hz]



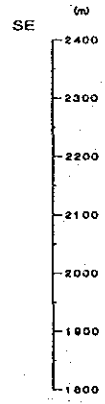
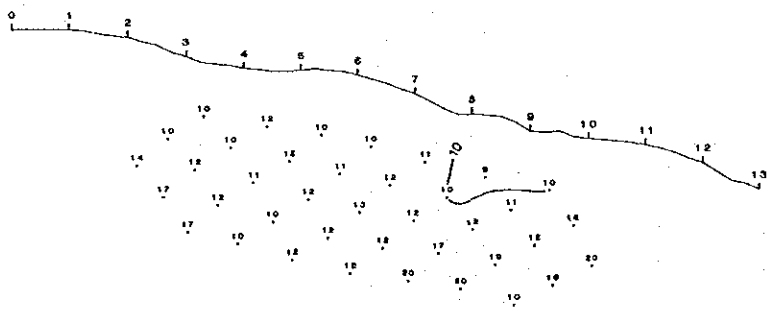
RAW PHASE (-mrad)[1Hz]



RAW PHASE (-mrad)[3Hz]

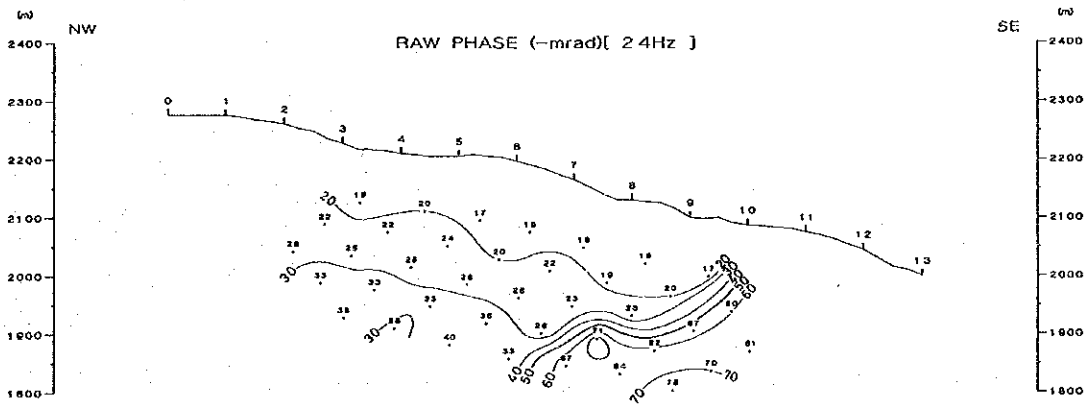
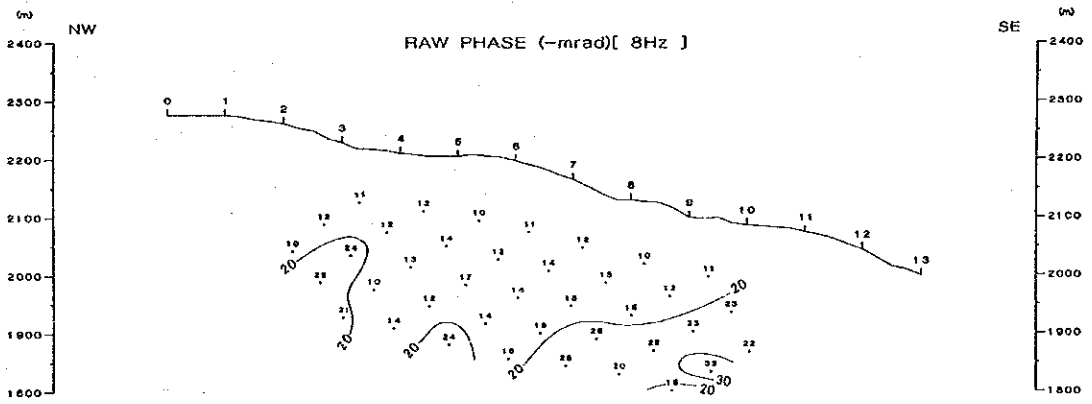
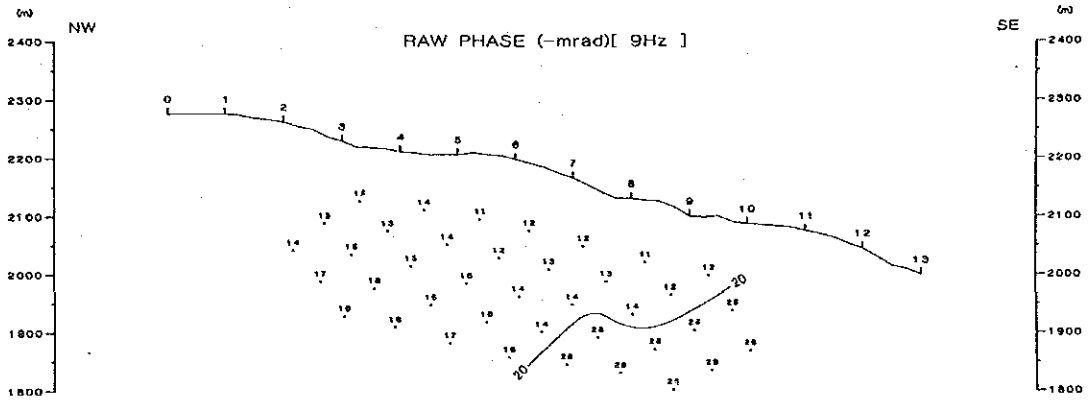
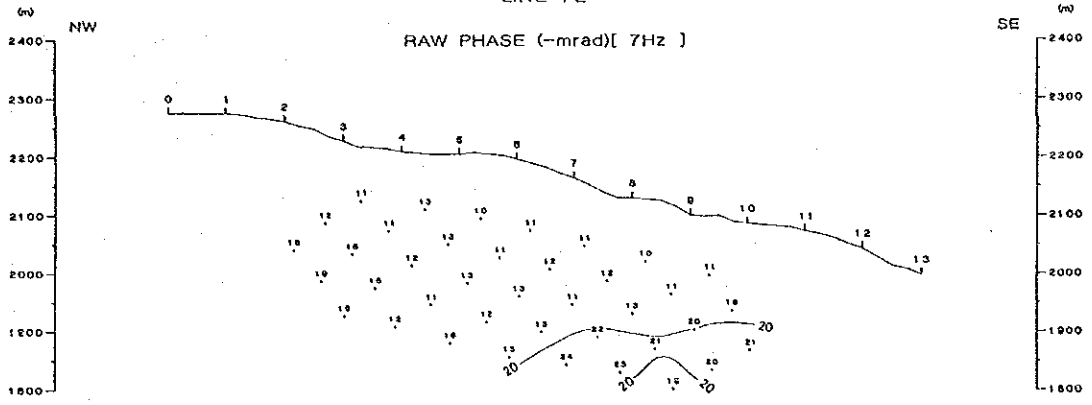


RAW PHASE (-mrad)[5Hz]

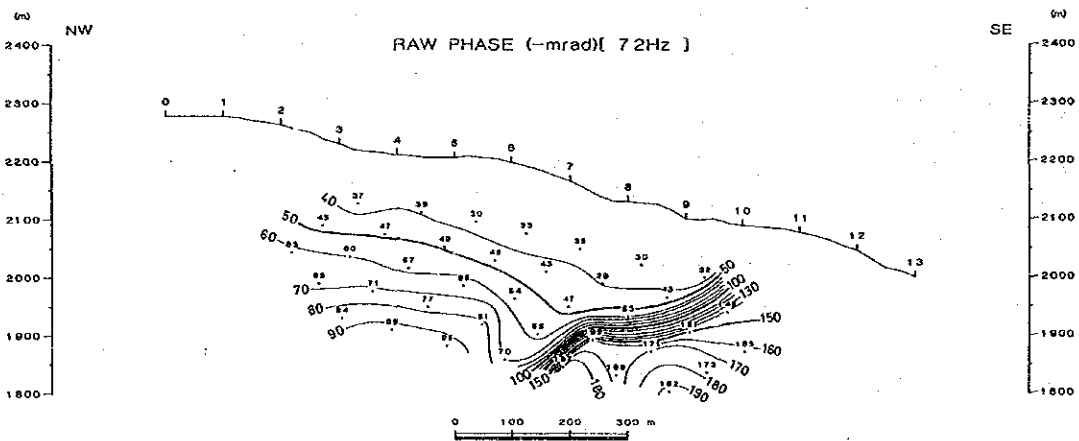
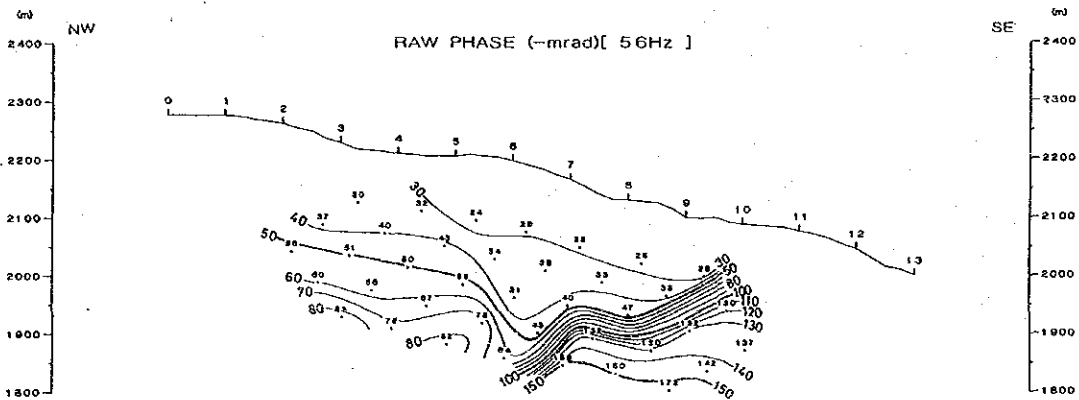
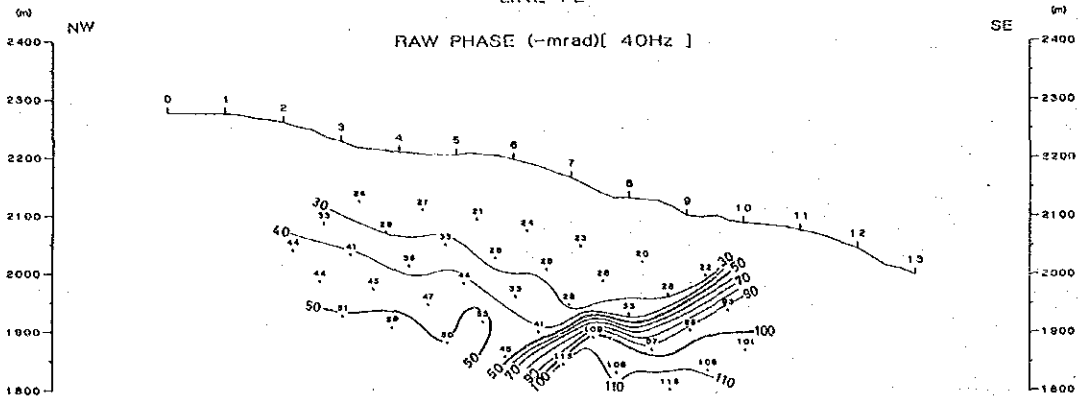


0 100 200 300 m

LINE-PE



LINE-PE



11/11/11